

TABLE OF CONTENTS

1	QUICK GUIDE	9
2	BASIC FUNCTION	25
3	NAVIGATION SYSTEM	54
4	PHONE	129
5	AUDIO/VIDEO SYSTEM	188
6	VOICE COMMAND SYSTEM	267
7	INFORMATION	281
8	APPS	303
9	PERIPHERAL MONITORING SYSTEM	316
	INDEX	377

Introduction

NAVIGATION SYSTEM OWNER'S MANUAL

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 screen shots in this document and the actual screens of the navigation system differ depending on whether the functions and/or a contract existed and the map data available at the time of producing this document.

NAVIGATION SYSTEM

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 when 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 satellite conditions, road configuration, vehicle condition or other circumstances. For more information on the limitations of the system, refer to pages 126 through 128.

TOYOTA MOTOR CORPORATION

IMPORTANT INFORMATION ABOUT THIS MANUAL

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

CAUTION

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

NOTICE

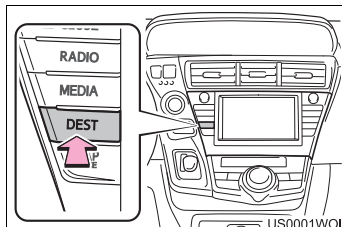
- This is a warning against anything which may cause damage to the vehicle or its equipment if the warning is ignored. You are informed about what you must or must not do in order to avoid or reduce the risk of damage to your vehicle and its equipment.

SYMBOLS USED IN ILLUSTRATIONS




Safety symbol

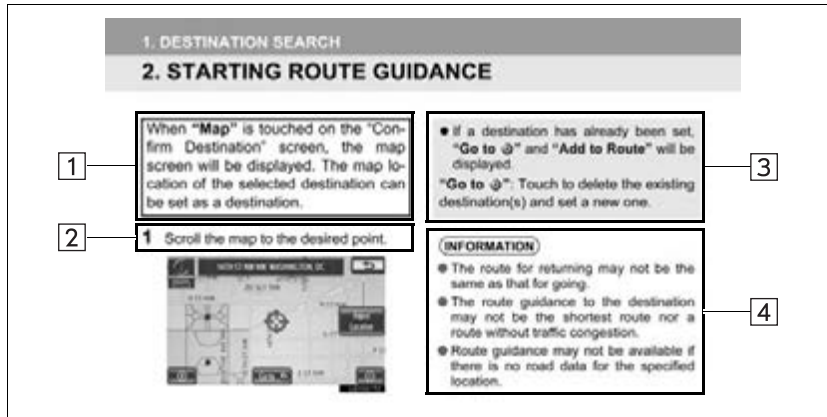
The symbol of a circle with a slash through it means “Do not”, “Do not do this”, or “Do not let this happen”.



Arrows indicating operations

-  Indicates the action (pushing, turning, etc.) used to operate switches and other devices.

HOW TO READ THIS MANUAL



No.	Name	Description
1	Operational Outlines	An outline of the operation is explained.
2	Main Operations	The steps of an operation are explained.
3	Related Operations	A main operation's supplementary operations are described.
4	Information	Useful information for the user is described.

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 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 not have the updated 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 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 instructions 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.

TABLE OF CONTENTS

1 QUICK GUIDE

1. NAVIGATION OPERATION	10
OVERVIEW BUTTON AND GUIDANCE SCREEN	10
REGISTERING HOME	12
REGISTERING PRESET DESTINATIONS	14
OPERATION FLOW: GUIDING THE ROUTE	16
SETTING HOME AS THE DESTINATION	17
2. FUNCTION INDEX	18
NAVIGATION SYSTEM FUNCTION INDEX	18
3. QUICK REFERENCE	20
"Destination" SCREEN	20
"Setup" SCREEN	22
"Information" SCREEN	24

2 BASIC FUNCTION

1. BASIC INFORMATION BEFORE OPERATION	26
INITIAL SCREEN	26
TOUCH SCREEN OPERATION	27
INPUTTING LETTERS AND NUMBERS/ LIST SCREEN OPERATION	28
SCREEN ADJUSTMENT	31
MAP SCREEN OPERATION	33
2. SETUP	43
GENERAL SETTINGS	43
VOICE SETTINGS	52

3 NAVIGATION SYSTEM

1. DESTINATION SEARCH	56
DESTINATION SEARCH	56
STARTING ROUTE GUIDANCE	74
2. ROUTE GUIDANCE	78
ROUTE GUIDANCE SCREEN	78
TYPICAL VOICE GUIDANCE PROMPTS	81
DISTANCE AND TIME TO DESTINATION	84
SETTING AND DELETING DESTINATIONS	85
SETTING ROUTE	87
3. ADDRESS BOOK	96
NAVIGATION SETTINGS	96
4. SETUP	112
DETAILED NAVIGATION SETTINGS	112
VEHICLE SETTINGS	120
5. GPS (GLOBAL POSITIONING SYSTEM)	126
LIMITATIONS OF THE NAVIGATION SYSTEM	126

4 PHONE

1. PHONE OPERATION 130
 QUICK REFERENCE 130
 PHONE (HANDS-FREE SYSTEM FOR CELLULAR PHONE)..... 132
 REGISTER A Bluetooth® PHONE..... 137
 CALL ON THE Bluetooth® PHONE..... 141
 RECEIVE ON THE Bluetooth® PHONE 148
 TALK ON THE Bluetooth® PHONE..... 149
 Bluetooth® PHONE MESSAGE FUNCTION..... 152
2. SETUP 155
 PHONE SETTINGS 155
 Bluetooth® SETTINGS 177

5 AUDIO/VIDEO SYSTEM

1. AUDIO/VIDEO SYSTEM OPERATION 190
 QUICK REFERENCE 190
 SOME BASICS..... 192
 RADIO OPERATION 199
 HD Radio™ TECHNOLOGY INFORMATION 202
 RADIO OPERATION (XM Satellite Radio BROADCAST) 206
 RADIO OPERATION (INTERNET RADIO BROADCAST) 212
 DVD PLAYER OPERATION..... 213
 USB MEMORY OPERATION 233
 iPod OPERATION 238
 Bluetooth® AUDIO OPERATION..... 242
 AUDIO/VIDEO REMOTE CONTROLS (STEERING SWITCHES) 252
 AUDIO/VIDEO SYSTEM OPERATING HINTS 254
2. SETUP 264
 AUDIO SETTINGS 264

6 VOICE COMMAND SYSTEM

1. VOICE COMMAND SYSTEM OPERATION..... 268
 VOICE COMMAND SYSTEM 268
 NATURAL SPEECH INFORMATION (ENGLISH ONLY) 274
 EXPANDED VOICE COMMANDS..... 276
 COMMAND LIST 277

7 INFORMATION

1. INFORMATION DISPLAY 282
 FUEL CONSUMPTION 282
 MAP DATABASE VERSION AND COVERAGE AREA 283
2. XM FUNCTION-OVERVIEW 285
 XM SERVICES 285
3. XM FUNCTION OPERATION 286
 XM Sports 286
 XM Stocks 289
 XM Fuel Prices..... 292
 XM NavWeather™ 295
 XM NavTraffic® 298
4. SETUP 301
 XM SETTINGS..... 301



TABLE OF CONTENTS

8

APPS

1. ENTUNE-OVERVIEW	304
ENTUNE SERVICE	304
BEFORE USING ENTUNE	306
2. ENTUNE OPERATION	308
ACTIVATING "APPS"	308
LINKING "APPS" AND NAVIGATION	
LOCAL FUNCTION	311
INPUTTING KEYWORD	
OPERATION	313

9

PERIPHERAL MONITORING SYSTEM

1. REAR VIEW MONITOR SYSTEM	318
REAR VIEW MONITOR SYSTEM	
OPERATION	318
2. ADVANCED PARKING GUIDANCE SYSTEM.....	322
INTRODUCTION	322
MANEUVERING WHEN PARKING	324
PARKING ASSIST MODE	
(PERPENDICULAR PARKING)	330
PARALLEL PARKING ASSIST	
MODE.....	344
WHAT TO DO WHEN THIS SORT	
OF MESSAGE IS DISPLAYED	355
MANUAL GUIDE LINE DISPLAY	
MODE.....	360
USAGE PRECAUTIONS	366

INDEX

ALPHABETICAL INDEX	378
---------------------------------	------------

1

QUICK GUIDE

1 NAVIGATION OPERATION

- 1. OVERVIEW BUTTON AND GUIDANCE SCREEN..... 10
- 2. REGISTERING HOME 12
- 3. REGISTERING PRESET DESTINATIONS 14
- 4. OPERATION FLOW: GUIDING THE ROUTE..... 16
- 5. SETTING HOME AS THE DESTINATION 17

2 FUNCTION INDEX

- 1. NAVIGATION SYSTEM FUNCTION INDEX..... 18

3 QUICK REFERENCE

- 1. "Destination" SCREEN 20
- 2. "Setup" SCREEN 22
- 3. "Information" SCREEN..... 24

1

2

3

4

5

6

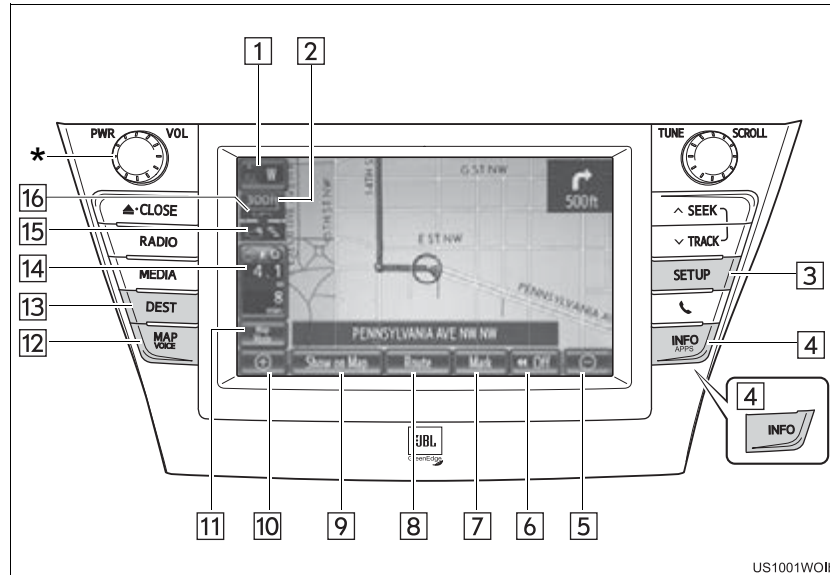
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8

9

1. NAVIGATION OPERATION

1. OVERVIEW BUTTON AND GUIDANCE SCREEN



US1001WOlb

No.	Name	Function	Page
1	North-up or heading-up symbol	This symbol indicates whether the map orientation is set to north-up or heading-up. Touching this symbol changes the map orientation. Both north-up and heading-up symbols display the vehicles direction as a letter (e.g. N for north).	41
2	Scale indicator	This figure indicates the map scale.	41
3	"SETUP" button	Press to display the "Setup" screen.	22, 31, 43, 52, 96, 112, 120, 155, 177, 264, 301
4	"INFO/APPS" ("INFO") button	Press to display the "Information" screen. For vehicles sold in Canada, the "INFO" button is used instead of the "INFO/APPS" button.	24, 282, 283, 286, 289, 292, 295, 298, 308, 311

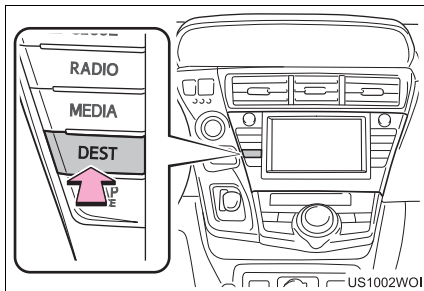
No.	Name	Function	Page
5	Zoom out button	Touch to reduce the map scale.	41
6	“◀◀ Off”	Touch to obtain a broader view. Some of the buttons on the screen will not be displayed. They are displayed again by touching “On ▶▶”.	116
7	“Mark”	Touch to register the current position or the cursor position as an address book entry.	34
8	“Route”	Touch to change the route.	85, 87
9	“Show on Map”	Touch to browse information about guidance route, to set the POI (Point of Interest) icons to be displayed on the screen, to record the route, etc.	92, 299
10	Zoom in button	Touch to magnify the map scale.	41
11	“Map Mode”	Touch to display the “Map Mode” screen.	38
12	“MAP/VOICE” button	Press to repeat a voice guidance, cancel the screen scroll, start guidance, and display the current position.	33
13	“DEST” button	Press to display the “Destination” screen.	12, 14, 16, 17, 20, 56
14	Distance and time to destination	Touch to display the distance, estimated travel and arrival time to the destination.	84
15	XM indicator	This mark is displayed when XM information is received.	297, 299
16	“GPS” mark (Global Positioning System)	Whenever the vehicle is receiving signals from the GPS, this mark is displayed.	126

*: Press and hold the “**PWR VOL**” knob for 3 seconds or more to turn off the screen and restart the navigation system. Do this when the vehicle-mounted device response is extremely slow.

1. NAVIGATION OPERATION

2. REGISTERING HOME

- 1 Press the "DEST" button.



- 2 Touch "Go Home".

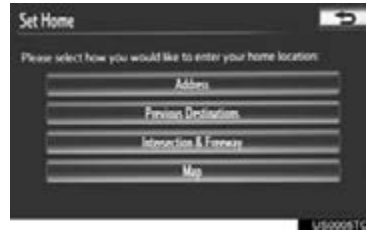


If a home address has not been registered, it can be registered by touching "Go Home".

- 3 Touch "Yes".



- 4 There are 4 different methods to search your home. (See "DESTINATION SEARCH" on page 56.)



- 5 Touch "Enter".



The "Edit Home" screen is displayed.

6 Touch "OK".

Registration of home is complete.

Home can also be registered by touching **"Navigation"** on the "Setup" screen. (See "REGISTERING HOME" on page 97.)

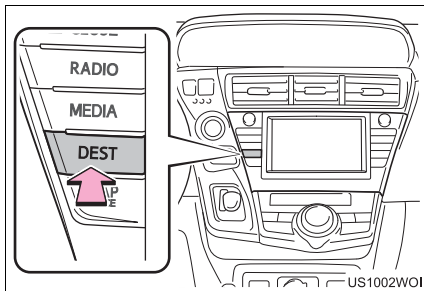
The name, location, phone number and icon can be changed. (See "EDITING HOME" on page 98.)

The registered points can be used on the "Destination" screen. (See "DESTINATION SEARCH BY HOME" on page 57.)

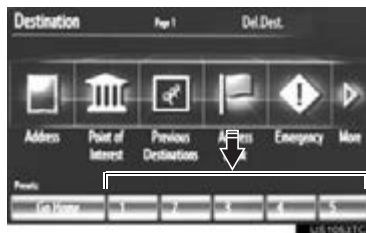
1. NAVIGATION OPERATION

3. REGISTERING PRESET DESTINATIONS

- 1 Press the “DEST” button.



- 2 Touch one of the preset destination buttons.

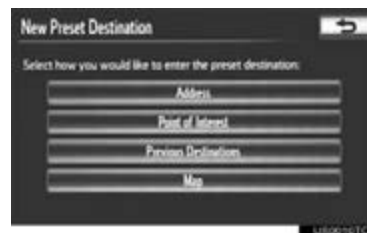


A preset destination can be set to any preset destination button that has not yet been set.

- 3 Touch “Yes”.



- 4 There are 4 different methods to search preset destinations. (See “DESTINATION SEARCH” on page 56.)



- 5 Touch “Enter”.



The “Edit Preset Destination” screen is displayed.

6 Touch "OK".



Registration of preset destinations is complete.

Preset destinations can also be registered by touching "**Navigation**" on the "Setup" screen. (See "REGISTERING PRESET DESTINATIONS" on page 99.)

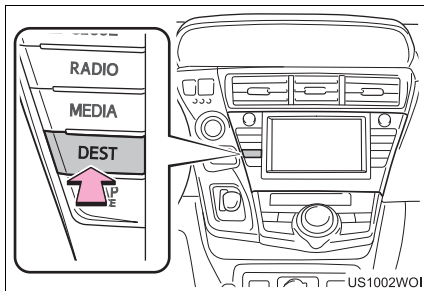
The name, location, phone number and icon can be changed. (See "EDITING PRESET DESTINATIONS" on page 100.)

The registered points can be used on the "Destination" screen. (See "DESTINATION SEARCH BY PRESET DESTINATIONS" on page 57.)

1. NAVIGATION OPERATION

4. OPERATION FLOW: GUIDING THE ROUTE

- 1 Press the “DEST” button.



- 2 There are 10 different methods to search destinations. (See “DESTINATION SEARCH” on page 56.)

► Page 1



► Page 2



- 3 Touch “Go to”.



The navigation system performs a search for the route.

- 4 Touch “OK”, and start driving.



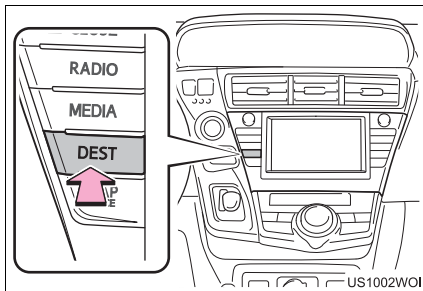
Routes other than the one recommended can also be selected. (See “STARTING ROUTE GUIDANCE” on page 74.)

Guidance to the destination is displayed on the screen and can be heard via voice guidance.

1. NAVIGATION OPERATION

5. SETTING HOME AS THE DESTINATION

1 Press the “DEST” button.



2 Touch “Go Home”.



“Go Home” can be used if your home address has been registered. (To register home, see “REGISTERING HOME” on page 97.)

Your home address is set as the destination. The navigation system performs a search for the route.

3 Touch “OK”, and start driving.



Routes other than the one recommended can also be selected. (See “STARTING ROUTE GUIDANCE” on page 74.)

Guidance to the destination is displayed on the screen and can be heard via voice guidance.

2. FUNCTION INDEX

1. NAVIGATION SYSTEM FUNCTION INDEX

► Map

Displaying maps	Page
Viewing the map screen	10
Displaying the current position	33
Viewing the current position vicinity map	33
Changing the scale	41
Changing the map orientation	41
Displaying Points of Interest	92
Displaying the estimated travel/arrival time to the destination	84
Selecting the map mode	38
Deleting map screen buttons	116
Displaying traffic information	298

Searching destinations	Page
Searching the destination	56
Changing the selected search area	56
Operating the map location of the selected destination	74

► Route guidance

Before starting route guidance	Page
Setting the destination	74
Viewing alternative routes	76
Starting route guidance	74

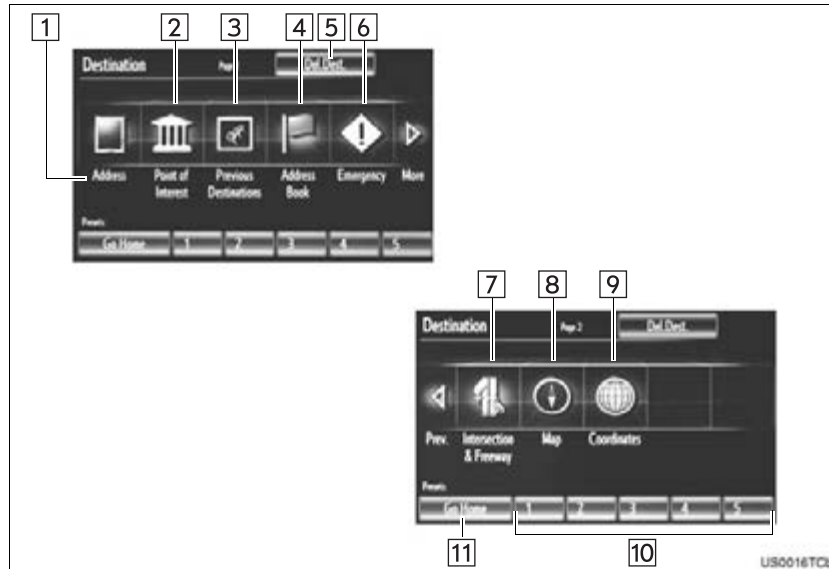
Before starting or during route guidance	Page
Viewing the route	74
Adding destinations	85
Changing the route	87
Displaying the estimated travel/arrival time to the destination	84

During route guidance	Page
Pausing route guidance	91
Adjusting route guidance volume	53
Deleting the destination	86
Displaying the entire route map	88
► Useful functions	
Address book	Page
Registering address book entries	101
Marking icons on the map	103
Information	Page
Displaying vehicle maintenance	120
Hands-free system (for cellular phone)	Page
Initiating Bluetooth®	132
Making a call on a Bluetooth® phone	141
Receiving a call on the Bluetooth® phone	148
Voice command system	Page
Operating the system with your voice	268

3. QUICK REFERENCE

1. “Destination” SCREEN

The “Destination” screen enables a destination search. Press the “**DEST**” button to display the “Destination” screen.



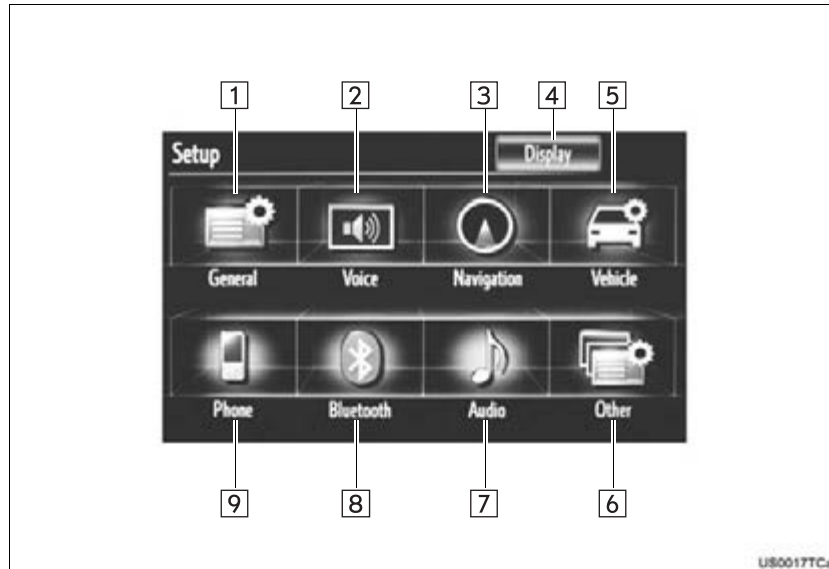
No.	Name	Function	Page
1	“Address”	Touch to input a house number and the street address using the input keys.	58
2	“Point of Interest”	Touch to select one of the POIs that have already been stored in the system’s database.	61
3	“Previous Destinations”	Touch to select a destination from any of the last 100 previously set destinations and from the previous starting point.	67
4	“Address Book”	Touch to select the desired location from a registered entry in “Address book”. (To register address book entries, see “REGISTERING ADDRESS BOOK ENTRIES” on page 102.)	68

No.	Name	Function	Page
5	"Del.Dest."	Touch to delete set destinations.	72
6	"Emergency"	Touch to select one of the 4 categories of emergency service points that have already been stored in the system's database.	68
7	"Intersection & Freeway"	Touch to enter the names of 2 intersecting streets or a freeway (interstate) entrance or exit. This is helpful if only the general vicinity, not the specific address, is known.	69
8	"Map"	Touch to enable setting a destination by touching a location on the map screen.	71
9	"Coordinates"	Touch to enter latitude and longitude coordinates.	72
10	Preset destination buttons	Touch to select one of the 5 preset destination points as a destination. If a preset destination point has not been registered, a message will be displayed asking if it is desirable to set a destination to the preset screen button. (To register a preset destination, see "REGISTERING PRESET DESTINATIONS" on page 99.)	57
11	"Go Home"	Touch to select your personal home address without having to enter the address each time. If a home address has not been registered, a message will be displayed and the setting screen will automatically appear. (To register home, see "REGISTERING HOME" on page 97.)	57

3. QUICK REFERENCE

2. “Setup” SCREEN

The items shown on the “Setup” screen can be set. Press the “**SETUP**” button to display the “Setup” screen.



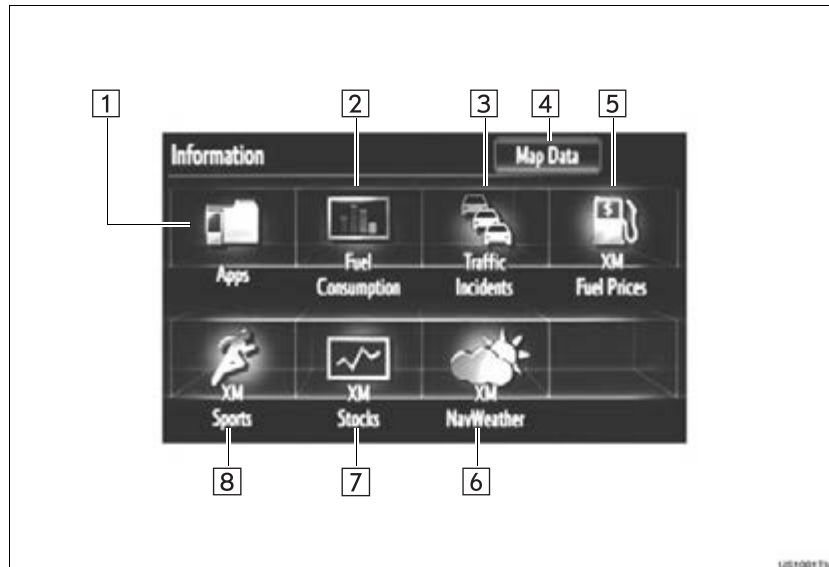
No.	Name	Function	Page
1	“General”	Touch to change the selected language, operation sound, automatic screen change settings, etc.	43
2	“Voice”	Touch to set the voice guidance settings.	52
3	“Navigation”	Touch to set home, preset destinations, address book, areas to avoid, etc. or to delete previous destinations.	96
4	“Display”	Touch to adjust the contrast and brightness of the screens, turn the display off, etc.	31
5	“Vehicle”	Touch to set vehicle information such as maintenance information.	120
6	“Other”	Touch to set XM Sports, XM Stocks and XM Fuel Prices.	301
7	“Audio”	Touch to set iPod and HD Radio™ channel settings.	264
8	“Bluetooth*”	Touch to set Bluetooth® phones and Bluetooth® audio devices.	177
9	“Phone”	Touch to set the phone sound, phonebook, message settings, etc.	155

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

3. QUICK REFERENCE

3. “Information” SCREEN

This screen can be used to display the XM satellite system, fuel consumption, etc. Press the “INFO/APPS” (“INFO”) button to display the “Information” screen.



No.	Name	Function	Page
1	“Apps”	Touch to display the “Apps” screen.	308, 311
2	“Fuel Consumption”	Touch to display the fuel consumption screen.	282
3	“Traffic Incidents”	Touch to display traffic incidents.	298
4	“Map Data”	Touch to display map data information.	283
5	“XM Fuel Prices”	Touch to display current fuel prices and gas station locations information.	292
6	“XM NavWeather”	Touch to display weather information.	295
7	“XM Stocks”	Touch to display personally selected stocks information.	289
8	“XM Sports”	Touch to display personally selected sports teams information.	286

2

BASIC FUNCTION

1 BASIC INFORMATION BEFORE OPERATION

- 1. INITIAL SCREEN 26
- 2. TOUCH SCREEN OPERATION 27
- 3. INPUTTING LETTERS AND NUMBERS/LIST SCREEN OPERATION 28
- 4. SCREEN ADJUSTMENT 31
 - SCREEN SETTINGS ADJUSTMENT 31
- 5. MAP SCREEN OPERATION 33
 - CURRENT POSITION DISPLAY 33
 - SCREEN SCROLL OPERATION 33
 - SWITCHING THE SCREENS 38
 - MAP SCALE 41
 - ORIENTATION OF THE MAP 41
 - STANDARD MAP ICONS 42

2 SETUP

- 1. GENERAL SETTINGS 43
 - SCREENS FOR GENERAL SETTINGS 43
- 2. VOICE SETTINGS 52
 - SCREEN FOR VOICE SETTINGS 52

1

2

3

4

5

6

7

8

9

1. BASIC INFORMATION BEFORE OPERATION

1. INITIAL SCREEN

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



- Images shown on the initial screen can be changed to suit individual preferences. (See page 48.)

CAUTION

- When the vehicle is stopped with the hybrid system operating, always apply the parking brake for safety.

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



- After about 5 seconds, the "CAUTION" screen automatically switches to the map screen. (If a button other than the "MAP/VOICE" button is pressed, the function's corresponding screen will be displayed.)

- When the navigation system is turned on in a screen other than the map screen, the "CAUTION" screen will be displayed when the screen is changed to the map screen for the first time after it has been turned on.

MAINTENANCE INFORMATION

This system reminds users 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 "Maintenance Reminder" screen will be displayed when the navigation system is turned on.



- This screen goes off if the screen is not operated for several seconds.
- To prevent this screen from being displayed again, touch "Do Not Display This Message Again".
- To register maintenance information, see "MAINTENANCE" on page 120.

1. BASIC INFORMATION BEFORE OPERATION

2. TOUCH SCREEN OPERATION

This system is operated mainly by the buttons on the screen. (Referred to as screen buttons in this manual.)

- When a screen button is touched, a beep sounds. (To set the beep sound, see page 43.)



NOTICE

- To prevent damaging the screen, lightly touch the screen buttons with your finger pad.
- Do not operate or rub the screen with a ballpoint pen, a mechanical pencil, finger nail, a pointy and/or hard object because this will damage the screen.
- Do not use objects other than your finger to touch the screen.
- When wiping the touch screen, it is advisable to wipe with a soft and dry cloth wrapped around the finger. Do not use chemical cleaners to clean the touch screen, as they may damage the touch screen. Also, be careful not to apply excessive force on the screen.

INFORMATION

- If the system does not respond to touching a screen button, move your finger away from the screen and then touch it again.
- Dimmed screen buttons cannot be operated.
- To operate the touch screen, press touch screen buttons properly with finger pad.
- When dew condensation occurs inside the touch screen, it is sometimes difficult to operate the display properly. In such case, please leave the screen untouched and do not operate the touch screen until dew condensation disappears.
- The displayed image may become darker and moving images may be slightly distorted when the screen is cold.
- In extremely cold conditions, the map may not be displayed and the data input by a user may be deleted. Also, the screen buttons may be harder than usual to depress.
- When the screen is viewed through polarized sunglasses, a rainbow pattern may appear on the screen due to optical characteristics of the screen. If this is disturbing, please operate the screen without polarized sunglasses.



1. BASIC INFORMATION BEFORE OPERATION

3. INPUTTING LETTERS AND NUMBERS/LIST SCREEN OPERATION

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

- Keyboard layout can be changed. (See page 47.)

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

Icon	Function
	Touch to enter in lower case.
	Touch to enter in upper case.


TO INPUT LETTERS AND NUMBERS

- 1 Touch "A-Z" to display the alphabet keys.



- 2 Touch the keys directly to enter letters or numbers.



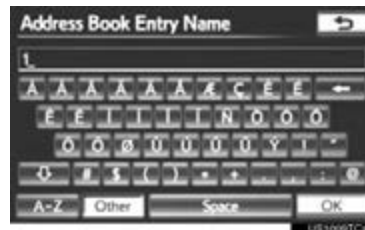
: Touch to erase one character. Touch and hold to continue erasing characters.


TO INPUT SYMBOLS

- 1 Touch "Other" to display symbol keys.



- 2 Touch the symbol keys directly to enter symbols.



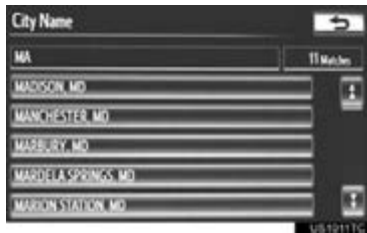
: Touch to erase one symbol. Touch and hold to continue erasing symbols.

TO DISPLAY THE LIST

- 1 Touch **“OK”** to search for an address or a name.



- Matching items from the database are listed even if the entered address or name is incomplete.
- The list will be displayed automatically if the maximum number of characters is entered or the number of matching items is 5 or less.

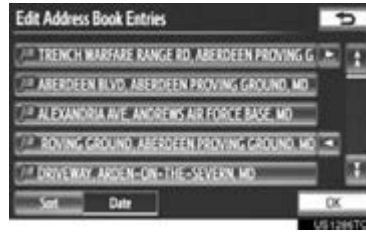


INFORMATION

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

LIST SCREEN OPERATION

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



Icon	Function
	Touch to skip to the next or previous page.
	Touch and hold or to scroll through the displayed list.
	This indicates the displayed screen's position.
	If appears to the right of an item name, the complete name is too long to display. Touch to scroll to the end of the name. Touch to move to the beginning of the name.

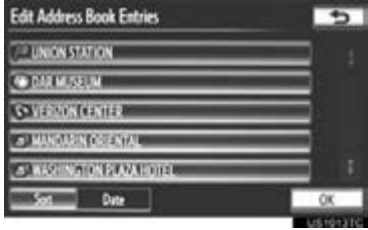
2
BASIC FUNCTION

1. BASIC INFORMATION BEFORE OPERATION

SORTING

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

1 Touch **“Sort”**.



2 Touch the desired sorting criteria.



Screen button	Function
“Distance”	Touch to sort in order of distance from the current position.
“Date”	Touch to sort in order of date.
“Category”	Touch to sort in order of category.
“Icon”	Touch to sort in order of icon.
“Name”	Touch to sort in order of name.
“Brand”	Touch to sort in order of brand name. (XM functions)
“Price”	Touch to sort in order of price. (XM functions)

1. BASIC INFORMATION BEFORE OPERATION

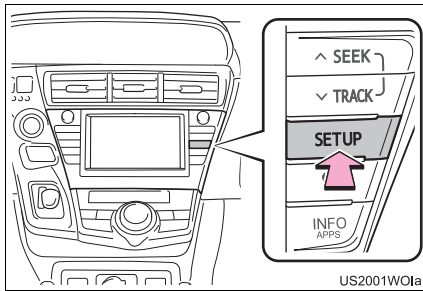
4. SCREEN ADJUSTMENT

The contrast and brightness of the screen display and the image the camera displays can be adjusted. The display can also be turned off, and/or changed to either day or night mode. (For information regarding audio/video screen adjustment, see “AUDIO SCREEN ADJUSTMENT” on page 224.)

SCREEN SETTINGS ADJUSTMENT

ADJUSTING SCREEN DISPLAY AND CAMERA SETTINGS

- 1 Press the “**SETUP**” button.



- 2 Touch “**Display**”.



- ▶ Adjusting the screen display



“**Camera**”: Touch to adjust the image the camera displays.

- ▶ Adjusting the image the camera displays

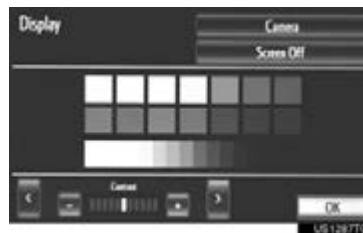


“**Map-Menu**”: Touch to return to the screen display settings.

CONTRAST AND BRIGHTNESS ADJUSTMENT

The contrast and brightness of the screen can be adjusted according to the brightness of your surroundings. The display can also be turned off.

- 1 Touch “<” or “>” to select the desired function (“**Contrast**” or “**Brightness**”).



2

BASIC FUNCTION

- 2 Touch the desired screen button to adjust contrast and brightness.

Screen button	Function
"Contrast" "+"	Touch to strengthen the contrast of the screen.
"Contrast" "-"	Touch to weaken the contrast of the screen.
"Brightness" "+"	Touch to brighten the screen.
"Brightness" "-"	Touch to darken the screen.

- 3 After adjusting the screen, touch "OK".

- The screen goes off when "Screen Off" is touched. To turn the screen back on, press any button. The selected screen appears.

CHANGING BETWEEN DAY AND NIGHT MODE

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

- 1 To display the screen in day mode, even with the headlight switch on, touch "Day Mode" for brightness and contrast control.



- 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.

INFORMATION

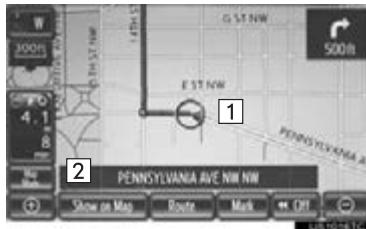
- If the screen is set to day mode with the headlight switch turned on, this condition is memorized even with the hybrid system turned off.

1. BASIC INFORMATION BEFORE OPERATION

5. MAP SCREEN OPERATION

CURRENT POSITION DISPLAY

When starting the navigation system, the current position is displayed first. This screen displays the current position and a map of the surrounding area.



- The current 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).
- The screen can be returned to this map screen that shows the current position at any time, from any screen by pressing the "MAP/VOICE" button.

- To correct the current position manually, see page 117.

INFORMATION

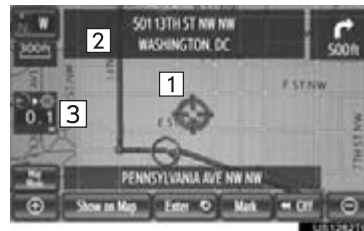
- While driving, the current position mark is fixed on the screen and the map moves.
- The current position is automatically set as the vehicle receives signals from the GPS (Global Positioning System). If the current position is not correct, it is automatically corrected after the vehicle receives signals from the GPS.

INFORMATION

- After 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.

SCREEN SCROLL OPERATION

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.
- If a finger touches and holds the map screen, it 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).

2

BASIC FUNCTION

1. BASIC INFORMATION BEFORE OPERATION

- After the screen is scrolled, the map remains centered at the selected location until another function is activated. The current position mark will continue to move along your actual route and may move off the screen. When the **“MAP/VOICE”** button is pressed, the current position mark returns to the center of the screen and the map moves as the vehicle proceeds along the designated route.
- When the scroll feature is used, the current position mark may disappear from the screen. Press the **“MAP/VOICE”** button to display the current position on the map screen.

TO SET THE CURSOR POSITION AS A DESTINATION

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

- 1 Touch **“Enter”** .



- The screen changes and displays the map location of the selected destination and the route preference. (See **“STARTING ROUTE GUIDANCE”** on page 74.)

TO REGISTER THE CURSOR POSITION AS AN ADDRESS BOOK ENTRY


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

- 1 Touch **“Mark”**.



- 2 This screen is displayed.



- The registered point is shown by  on the map.

- To change the icon or name, etc., see **“EDITING ADDRESS BOOK ENTRIES”** on page 102.

INFORMATION

- 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.

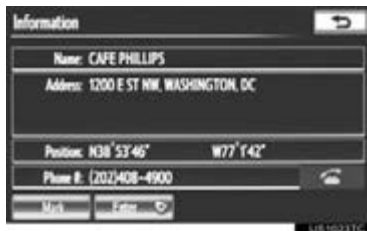
POI INFORMATION

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

- 1 Touch **“Info”**.



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




- If **“Enter”** is touched, the cursor position will be set as a destination.
- If a destination has already been set, **“Go Directly”** and **“Add to Route”** will be displayed.

“Go Directly”: Touch to delete the existing destination(s) and set a new one.

“Add to Route”: Touch to add a destination.

- To register this POI as an address book entry, touch **“Mark”**. (See **“REGISTERING ADDRESS BOOK ENTRIES”** on page 102.)

- If  is touched, the registered phone number can be called.

- The desired POI can be displayed on the map screen. (See **“DISPLAY POI ICONS”** on page 92.)

■ 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.

1 Touch “Info”.



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



- If “Enter” is touched, the cursor position will be set as a destination.

- If a destination has already been set, “Go Directly” and “Add to Route” will be displayed.

“Go Directly”: Touch to delete the existing destination(s) and set a new one.

“Add to Route”: Touch to add a destination.

- To edit an address book entry, touch “Edit”. (See “EDITING ADDRESS BOOK ENTRIES” on page 102.)

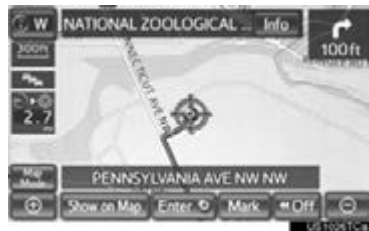
- To delete an address book entry, touch “Delete”.

- If is touched, the registered phone number can be called.

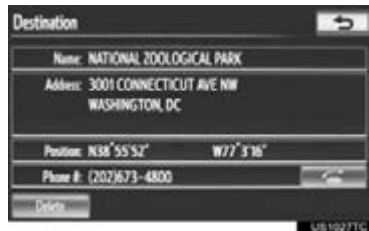
DESTINATION INFORMATION

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

- 1 Touch “Info”.



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



- To delete a destination, touch “Delete”.
- If is touched, the registered phone number can be called.

XM NavTraffic® TEXT INFORMATION

When the XM NavTraffic® icon on the map screen is touched, the XM NavTraffic® information bar will appear on the upper part of the screen.

- 1 Touch “Info”.



- 2 Traffic information will be displayed on the screen.



- To display detailed traffic event information, touch “Detail”.



2
BASIC FUNCTION

SWITCHING THE SCREENS

Any of the screen configurations can be selected.

- 1 Touch **“Map Mode”**.



- 2 Touch the screen buttons to select the desired configuration.



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

Screen button	Function
“Map Only”	Touch to display the single map screen. (See page 39.)
“Turn List”	Touch to display the turn list screen. (See page 80.)

Screen button	Function
“Intersection”	Touch to display the intersection guidance screen or the guidance screen on the freeway. (See page 79.)
“Audio”	Touch to display the audio screen. (See page 39.)
“Fuel Consumption”	Touch to display the fuel consumption screen. (See page 39.)
“Other Information”	Touch to display the following 4 screen configurations: “Dual map”, “Compass”, “Turn-by-Turn Arrow” and “Freeway Exit List”.
“Dual map”	Touch to display the dual map screen. (See page 39.)
“Compass”	Touch to display the compass mode screen. (See page 40.)
“Turn-by-Turn Arrow”	Touch to display the turn-by-turn arrow screen. (See page 80.)
“Freeway Exit List”	Touch to display the freeway exit list screen. (See page 78.)

SCREEN CONFIGURATIONS

MAP ONLY

This is a regular map screen.



- The screen shows the single map.
- While on a different screen, touching **“Map Only”** will display the single map screen.

AUDIO

The audio screen and the map screen are displayed.



- Information on the current radio station or track is displayed.
- If a different screen is displayed, touch **“Audio”** on the “Map Mode” screen.
- For audio system operation, refer to “AUDIO/VIDEO SYSTEM OPERATION”. (See page 190.)

FUEL CONSUMPTION

The fuel consumption screen and the map screen are displayed.



- Touching “<” or “>” allows selection of the desired mode (“Energy Monitor”, “Trip Information” or “Past Record”).
- If a different screen is displayed, touch **“Fuel Consumption”** on the “Map Mode” screen.
- For an explanation on each fuel consumption mode, refer to “FUEL CONSUMPTION”. (See page 282.)

DUAL MAP

The map screen can be split into two.



- This screen shows the dual map. The map on the left is the main map.
- While on a different screen, touching **“Dual map”** will display the dual map screen.

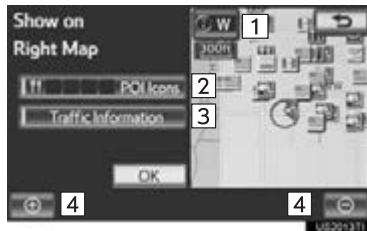
2

BASIC FUNCTION

■ EDITING RIGHT MAP

The right side map can be edited by touching any point on the right side map.

- 1 Touch the desired screen button.



- The following procedures can be performed on this screen:

No.	Function
1	Changing the orientation of the map
2	Displaying POI icons
3	Showing XM NavTraffic® information (See page 299.)
4	Changing the map scale

- 2 Touch “OK” when editing is completed.

- The screen returns to the dual map screen.

■ COMPASS

The current position is indicated with a compass.



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

- While on a different screen, touching “Compass” will display the compass mode screen.

INFORMATION

- 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 the vehicle is headed in the direction of the destination.
- When the vehicle travels out of the coverage area, the guidance screen changes to the compass mode screen.

MAP SCALE

- 1 Touch or to change the scale of the map screen.



- The scale bar and indicator at the bottom of the screen indicate the map scale menu. The scale range is from 150 ft. (50 m) to 250 miles (400 km).
- Touch and hold or to continue changing the scale of the map screen.
- The scale of the map screen can be changed by touching the scale bar directly. This function is not available while driving.

INFORMATION

- The map scale is displayed under the north-up or heading-up symbol at the top left of the screen.
- 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 ft. (50 m), is not shown.

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.

- 1 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.












- Both the north-up and heading-up symbols display the vehicles direction as a letter (e.g. N for north).

2

BASIC FUNCTION

1. BASIC INFORMATION BEFORE OPERATION

STANDARD MAP ICONS

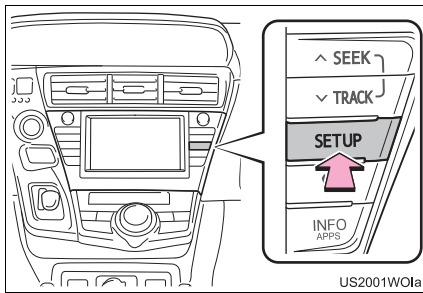
Icon	Name
	Island
	Park
	Industry
	Business facility
	Airport
	Military
	University
	Hospital
	Stadium
	Shopping mall
	Golf

2. SETUP

1. GENERAL SETTINGS

Used for language selection and the on/off settings of operation sounds and automatic screen change, etc.

- 1 Press the **“SETUP”** button.



- 2 Touch **“General”**.

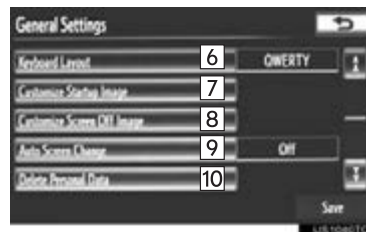
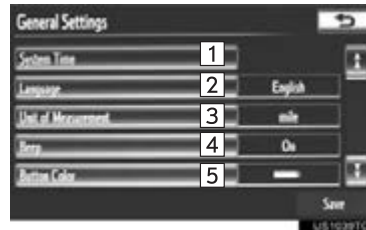


- 3 Touch the items to be set.



- 4 Touch **“Save”**.

SCREENS FOR GENERAL SETTINGS



- On this screen, the following functions can be performed:

2

BASIC FUNCTION

2. SETUP

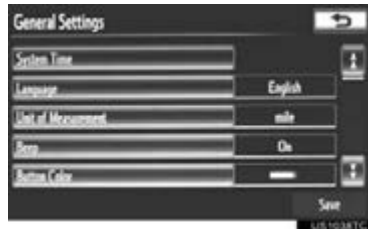
No.	Function
1	Touch to change the time zone and select “On” or “Off” for daylight saving time. (See “SYSTEM TIME SETTINGS” on page 45.)
2	Touch to change the language. (See “SELECTING A LANGUAGE” on page 46.)
3	Touch to change the distance unit. (See “UNIT OF MEASUREMENT” on page 46.)
4	Touch to turn the sound beeps “On” or “Off” .
5	Touch to change the screen button color. (See “SELECTING A BUTTON COLOR” on page 47.)
6	Touch to change the keyboard layout. (See “SELECTING A KEYBOARD LAYOUT” on page 47.)
7	Touch to customize the startup image. (See “CHANGING THE STARTUP IMAGE” on page 48.)
8	Touch to customize the screen off image. (See “CHANGING THE SCREEN OFF IMAGE” on page 50.)

No.	Function
9	Touch to set automatic screen changes from the audio/video control screen to the previous screen to “On” or “Off” . If “On” is touched, the screen will automatically return to the previous screen from the audio/video screen after 20 seconds.
10	Touch to delete personal data. (See “DELETING PERSONAL DATA” on page 51.)
11	Touch to update program versions. For details, contact your Toyota dealer.
12	Touch to update gracenote database versions. For details, contact your Toyota dealer.

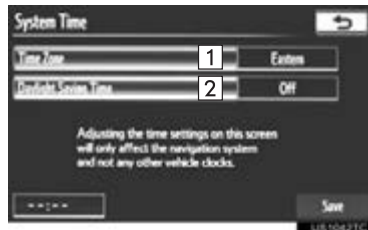
SYSTEM TIME SETTINGS

Used for changing time zones and the on/off settings of daylight saving time.

- 1 Press the **“SETUP”** button.
- 2 Touch **“General”** on the “Setup” screen.
- 3 Touch **“System Time”**.



- 4 Touch the items to be set.



- On this screen, the following functions can be performed:

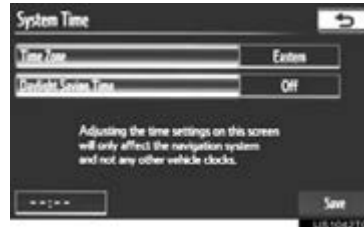
No.	Function
1	Touch to change the time zone. (See “TIME ZONE” on page 45.)
2	Touch to select “On” or “Off” for daylight saving time.

- 5 Touch **“Save”**.

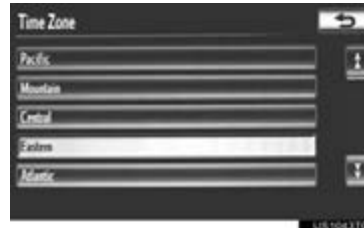
TIME ZONE

A time zone can be selected and GMT can be set.

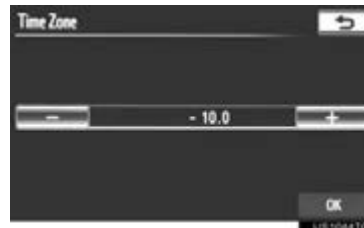
- 1 Press the **“SETUP”** button.
- 2 Touch **“General”** on the “Setup” screen.
- 3 Touch **“System Time”** on the “General Settings” screen.
- 4 Touch **“Time Zone”**.



- 5 Touch the desired time zone.



- If **“Other”** is touched, the zone can be adjusted manually. Touch **“+”** or **“-”** to adjust the time zone and then touch **“OK”**.



- 6 Touch **“Save”**.

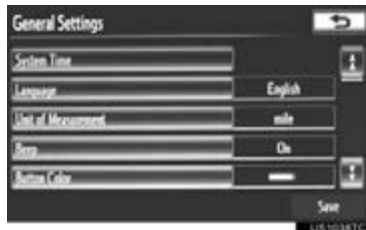
2 BASIC FUNCTION

2. SETUP

SELECTING A LANGUAGE

The language can be changed.

- 1 Press the **“SETUP”** button.
- 2 Touch **“General”** on the “Setup” screen.
- 3 Touch **“Language”**.



- 4 Touch the desired screen button.

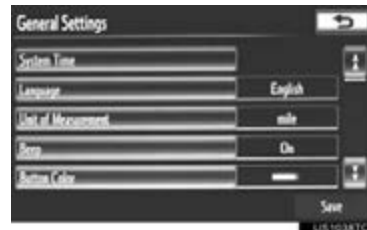


- 5 Touch **“Yes”**.
 - The previous screen will be displayed.
- 6 Touch **“Save”**.

UNIT OF MEASUREMENT

Distance unit can be changed.

- 1 Press the **“SETUP”** button.
- 2 Touch **“General”** on the “Setup” screen.
- 3 Touch **“Unit of Measurement”**.



- 4 Touch **“km”** or **“mile”**.



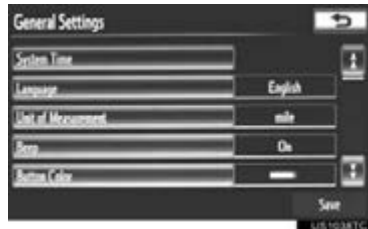
- The previous screen will be displayed.
- 5 Touch **“Save”**.

- This function is available only in English or Spanish. To change language, see “SELECTING A LANGUAGE” on page 46.

SELECTING A BUTTON COLOR

The color of the screen buttons can be changed.

- 1 Press the **“SETUP”** button.
- 2 Touch **“General”** on the “Setup” screen.
- 3 Touch **“Button Color”**.



- 4 Touch the desired screen button color.



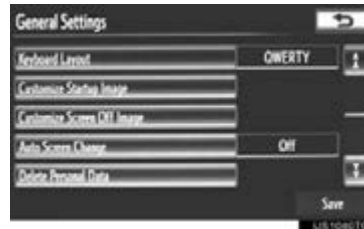
- The previous screen will be displayed.

- 5 Touch **“Save”**.

SELECTING A KEYBOARD LAYOUT

Keyboard layout can be changed.

- 1 Press the **“SETUP”** button.
- 2 Touch **“General”** on the “Setup” screen.
- 3 Touch **“Keyboard Layout”**.



- 4 Touch **“ABC”** or **“QWERTY”** of “Keyboard Layout” to change the keyboard layout.



- The previous screen will be displayed.

- 5 Touch **“Save”**.

2

BASIC FUNCTION

2. SETUP

LAYOUT TYPE

▶ “ABC” type



▶ “QWERTY” type



CHANGING THE STARTUP IMAGE

When the “POWER” switch is in ACCESSORY or ON mode, the initial screen will be displayed.

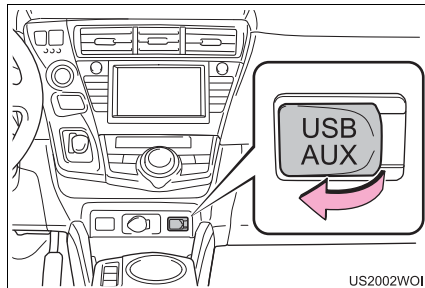
An image can be copied from a USB memory and used as the startup image. (For information regarding the startup image, see “INITIAL SCREEN” on page 26.)

INFORMATION

- When saving the images to a USB, name the folder that the startup image is saved to “StartupImage” and name the folder that the screen off image is saved to “DisplayOffImage”. If these folder names are not used, the navigation system cannot download the images. (The folder names are case sensitive.)
- The images file extension is JPG or JPEG.
- The images file name, including the file extension, can be up to 32 characters.
- Image files of 10 MB or less can be saved.
- Up to 3 images can be downloaded.

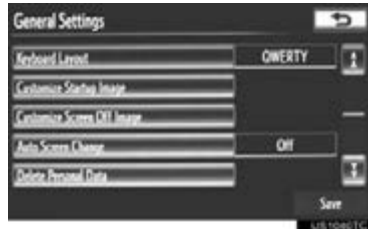
■ TRANSFERRING DATA

- 1 Open the cover and connect a USB memory.



- Turn on the power of the USB memory if it is not turned on.

- 2 Press the **“SETUP”** button.
- 3 Touch **“General”** on the **“Setup”** screen.
- 4 Touch **“Customize Startup Image”**.



- 5 Touch **“Transfer”**.



- 6 Touch **“Yes”**.

■ SETTING THE STARTUP IMAGE

- 1 Press the **“SETUP”** button.
- 2 Touch **“General”** on the **“Setup”** screen.
- 3 Touch **“Customize Startup Image”** on the **“General Settings”** screen.
- 4 Touch the desired image.



- 5 Touch **“Save”**.

■ DELETING TRANSFERRED IMAGES

- 1 Press the **“SETUP”** button.
- 2 Touch **“General”** on the **“Setup”** screen.
- 3 Touch **“Customize Startup Image”** on the **“General Settings”** screen.
- 4 Touch **“Delete All”**.



- 5 Touch **“Yes”**.

2

BASIC FUNCTION

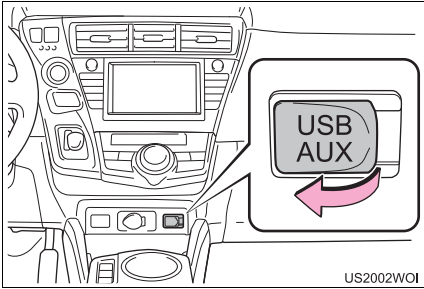
2. SETUP

CHANGING THE SCREEN OFF IMAGE

Touch **“Screen Off”** to turn off the screen. An image can be copied from a USB memory and can be set to display when **“Screen Off”** is touched. (For more information on **“Screen Off”**, see **“SCREEN ADJUSTMENT”** on page 31.)

TRANSFERRING DATA

- 1 Open the cover and connect a USB memory.



- Turn on the power of the USB memory if it is not turned on.

- 2 Press the **“SETUP”** button.
- 3 Touch **“General”** on the **“Setup”** screen.
- 4 Touch **“Customize Screen Off Image”**.



- 5 Touch **“Transfer”**.



- 6 Touch **“Yes”**.

SETTING THE SCREEN OFF IMAGE

- 1 Press the **“SETUP”** button.
- 2 Touch **“General”** on the **“Setup”** screen.
- 3 Touch **“Customize Screen Off Image”** on the **“General Settings”** screen.
- 4 Touch the desired image.



- 5 Touch **“Save”**.

DELETING TRANSFERRED IMAGES

- 1 Press the **"SETUP"** button.
- 2 Touch **"General"** on the "Setup" screen.
- 3 Touch **"Customize Screen Off Image"** on the "General Settings" screen.
- 4 Touch **"Delete All"**.



- 5 Touch **"Yes"**.

DELETING PERSONAL DATA

- 1 Press the **"SETUP"** button.
- 2 Touch **"General"** on the "Setup" screen.
- 3 Touch **"Delete Personal Data"**.



- 4 Touch **"Delete"**.



- 5 Touch **"Yes"**.

- 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 guidance
- Route trace
- Phonebook data
- Call history data
- Speed dial data
- Bluetooth® phone data
- Phone sound settings
- Phone display settings
- Message settings
- Audio setting
- Bluetooth® audio setting
- Startup image data
- Screen off image data
- Downloaded Apps

INFORMATION

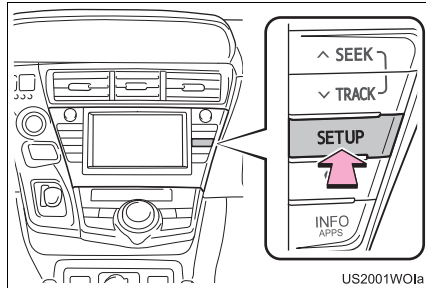
- This function is not available while driving.

2. SETUP

2. VOICE SETTINGS

Voice guidance etc. can be set.

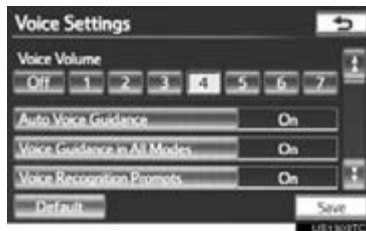
- 1 Press the **"SETUP"** button.



- 2 Touch **"Voice"**.

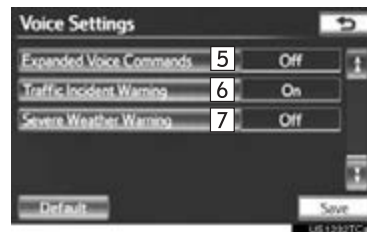
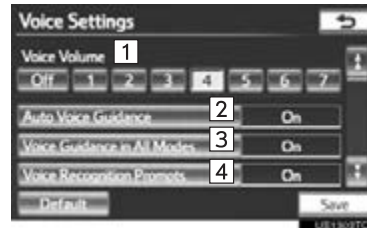


- 3 Touch the items to be set.



- 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 53.)
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 prompts can be set to "On" or "Off". This setting can also be changed on the "Shortcut Menu" screen. (See page 268.)
5	When "On" is selected, the audio/video system can be operated using voice commands.

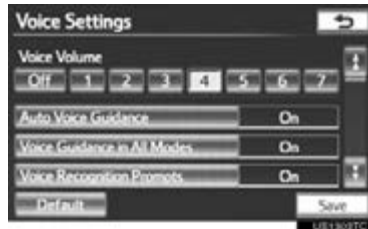
No.	Function
6	When using the traffic information function, voice guidance can be set to “On” or “Off” . (See “TRAFFIC INCIDENT WARNING” on page 53.)
7	When using the XM NavWeather™ function, the severe weather warning can be set to “On” or “Off” .

- To reset all setup items, touch **“Default”**.

VOICE VOLUME

The voice guidance volume can be adjusted or switched off.

- 1 Press the **“SETUP”** button.
- 2 Touch **“Voice”** on the “Setup” screen.
- 3 Select the desired level by touching the appropriate number.



- If voice guidance is not needed, touch **“Off”** to disable the feature.
- 4 Touch **“Save”**.

TRAFFIC INCIDENT WARNING

Traffic congestion information can be received via voice guidance while being guided to the desired destination.

- 1 Press the **“SETUP”** button.
- 2 Touch **“Voice”** on the “Setup” screen.
- 3 Touch **“On”** of “Traffic Incident Warning”.



- 4 Touch **“Save”**.

INFORMATION

- When the **“Traffic Information”** indicator is dimmed, “Avoid Traffic”, “Traffic Incident Warning” and “Show Free Flowing Traffic” will not operate. (See page 295.)

2

BASIC FUNCTION

3

NAVIGATION SYSTEM

1 DESTINATION SEARCH

1. DESTINATION SEARCH.....	56
SELECTING THE SEARCH AREA	56
DESTINATION SEARCH BY HOME.....	57
DESTINATION SEARCH BY PRESET DESTINATIONS.....	57
DESTINATION SEARCH BY "Address"	58
DESTINATION SEARCH BY "Point of Interest"	61
DESTINATION SEARCH BY "Previous Destinations".....	67
DESTINATION SEARCH BY "Address Book"	68
DESTINATION SEARCH BY "Emergency"	68
DESTINATION SEARCH BY "Intersection & Freeway".....	69
DESTINATION SEARCH BY "Map"	71
DESTINATION SEARCH BY "Coordinates"	72
DELETING SET DESTINATIONS.....	72
2. STARTING ROUTE GUIDANCE ...	74

3

NAVIGATION SYSTEM

2 ROUTE GUIDANCE

- 1. ROUTE GUIDANCE SCREEN 78
- 2. TYPICAL VOICE GUIDANCE PROMPTS..... 81
- 3. DISTANCE AND TIME TO DESTINATION 84
- 4. SETTING AND DELETING DESTINATIONS..... 85
 - ADDING DESTINATIONS 85
 - REORDERING DESTINATIONS..... 85
 - DELETING DESTINATIONS 86
- 5. SETTING ROUTE 87
 - DETOUR SETTING 87
 - ROUTE OVERVIEW..... 88
 - ROUTE PREFERENCE 89
 - PAUSING AND RESUMING GUIDANCE 91
 - SHOW ON MAP 92
 - ROUTE TRACE..... 95

3 ADDRESS BOOK

- 1. NAVIGATION SETTINGS 96
 - SETTING UP THE "Home" 97
 - SETTING UP THE "Preset Destinations" 99
 - SETTING UP THE "Address Book" 101
 - SETTING UP THE "Areas to Avoid" 106
 - DELETING PREVIOUS DESTINATIONS 110

4 SETUP

- 1. DETAILED NAVIGATION SETTINGS..... 112
 - SCREENS FOR NAVIGATION SETTINGS 112
- 2. VEHICLE SETTINGS 120
 - MAINTENANCE..... 120
 - VEHICLE CUSTOMIZATION..... 125

5 GPS (GLOBAL POSITIONING SYSTEM)

- 1. LIMITATIONS OF THE NAVIGATION SYSTEM 126

1

2

3

4

5

6

7

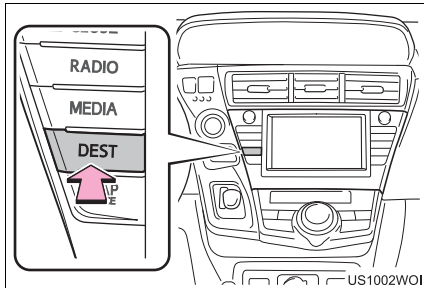
8

9

1. DESTINATION SEARCH

1. DESTINATION SEARCH

- 1 Press the “**DEST**” button.



- 2 This screen is displayed.



- One of 10 different methods can be used to search a destination. (See pages 57 through 72.)

INFORMATION

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

SELECTING THE SEARCH AREA

The selected state (province) can be changed to set a destination from a different state (province) by using “**Address**”, “**Point of Interest**” or “**Intersection & Freeway**”.

- 1 Touch “**Change State/Province**” to display a list of the states/provinces/territories of the United States and Canada.



- For map database information and updates, see “MAP DATABASE VERSION AND COVERAGE AREA” on page 283.

- If a state (province) has not been selected yet, “**Select State/Province**” is displayed.

- 2 Touch the desired state (province).



- The previous screen will be displayed.

DESTINATION SEARCH BY HOME

- 1 Press the **“DEST”** button.
- 2 Touch **“Go Home”**.



- Your home address is set as the destination. The navigation system performs a search for the route.

- 3 Touch **“OK”**.

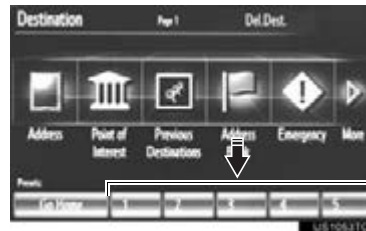
- To use this function, it is necessary to set a home address. (To register home, see page 97.)

INFORMATION

- If a home address has not been registered, a message confirming if it is desirable to set a home will be displayed, and the setting screen will appear.
- Guidance starts from the current position to the set home address if **“OK”** is touched even while driving.

DESTINATION SEARCH BY PRESET DESTINATIONS

- 1 Press the **“DEST”** button.
- 2 Touch any of the preset destination buttons (1-5).



- The selected preset destination point is set as the destination. The navigation system performs a search for the route. (See **“STARTING ROUTE GUIDANCE”** on page 74.)

- 3 Touch **“OK”**.

- To use this function, it is necessary to set preset destinations to the preset screen buttons (1-5). (See **“REGISTERING PRESET DESTINATIONS”** on page 99.)

INFORMATION

- If a preset destination point has not been registered, a message confirming if it is desirable to set a preset destination will be displayed, and the setting screen will appear.
- Guidance starts from the current position to the preset destination point if **“OK”** is touched even while driving.

3 NAVIGATION SYSTEM

DESTINATION SEARCH BY “Address”

There are 2 methods to search a destination by address:

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

- 1 Press the “**DEST**” button.
- 2 Touch “**Address**” on the “Destination” screen.
- 3 Select the desired search method.



SELECTING A CITY TO SEARCH

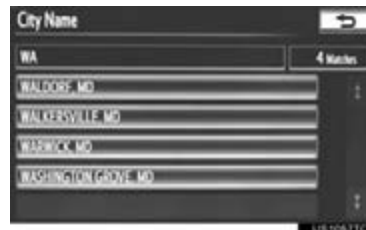
- 1 Press the “**DEST**” button.
- 2 Touch “**Address**” on the “Destination” screen.
- 3 Touch “**City**”.



- 4 Input a city name.



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



- 6 Input the street name and touch “OK”.



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



- When the desired street name is selected, the “Confirm Destination” screen may be displayed. If “Go” is touched on the “Confirm Destination” screen, the navigation system performs a search for the route. (See “STARTING ROUTE GUIDANCE” on page 74.)

- 8 Input a house number.



- If the same address exists in more than 1 city, the current screen changes to the address list screen.

SEARCHING FROM THE LAST 5 CITIES

- 1 Touch “Last 5 Cities”.



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



- The current screen changes to the screen for inputting a street name. (See “SELECTING A CITY TO SEARCH” on page 58.)

INFORMATION

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

3
NAVIGATION SYSTEM

1. DESTINATION SEARCH

SEARCH BY STREET ADDRESS

- 1 Press the “**DEST**” button.
- 2 Touch “**Address**” on the “Destination” screen.
- 3 Touch “**Street Address**”.



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



- After inputting the house number, touch “**OK**” to display the screen for inputting the street name.

- 5 Input the street name and touch “**OK**”.



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



- When the desired street name is selected, the “Confirm Destination” screen may be displayed. If “**Go**” is touched on the “Confirm Destination” screen, the navigation system performs a search for the route. (See “STARTING ROUTE GUIDANCE” on page 74.)

- If the same address exists in more than 1 city, a screen requesting the city name to be input or selected will be displayed.

- 7 Input a city name.



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



INFORMATION

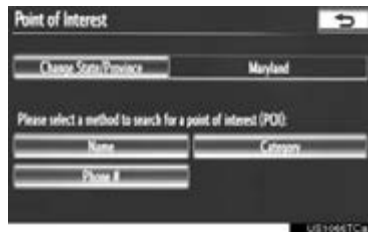
- A street name can be searched using only the body part of its name.
- For example: S WESTERN AVE
 - A search can be performed by inputting "S WESTERN AVE", "WESTERN AVE" or "WESTERN".

DESTINATION SEARCH BY "Point of Interest"

There are 3 methods to search a destination by Points of Interest:

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

- 1 Press the **"DEST"** button.
- 2 Touch **"Point of Interest"** on the "Destination" screen.
- 3 Select the desired search method.

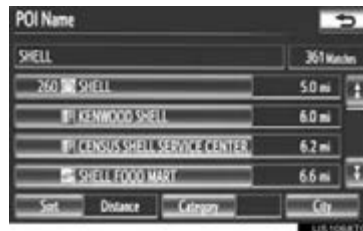


SEARCH BY "Name"

- 1 Press 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 POI.



- 5 Touch the screen button of the desired destination.



- When the desired destination is selected, the "Confirm Destination" screen may be displayed. If **"Go"** is touched on the "Confirm Destination" screen, the navigation system performs a search for the route. (See "STARTING ROUTE GUIDANCE" on page 74.)
- When inputting the name of a specific POI, and there are 2 or more sites with the same name, the list screen is displayed.

3 NAVIGATION SYSTEM

1. DESTINATION SEARCH

- 6 Touch the screen button of the desired destination.



- If the same name exists in more than 1 city, a search can be performed more easily using “City” or “Category”. (See “SELECTING A CITY TO SEARCH” on page 62 and “SELECTING FROM THE CATEGORIES” on page 63.)

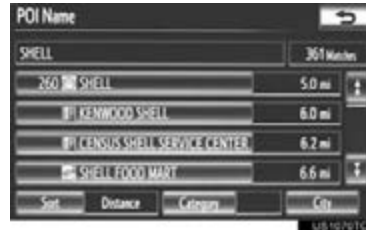
- The desired POI can be displayed on the map screen. (See “DISPLAY POI ICONS” on page 92.)

INFORMATION

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

SELECTING A CITY TO SEARCH

- 1 Touch “City”.



- 2 Input the city name.



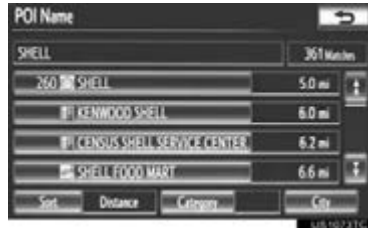
- To cancel the city setting, touch “Any City”.

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



SELECTING FROM THE CATEGORIES

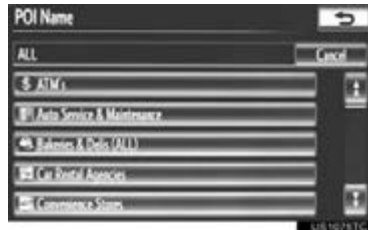
1 Touch “Category”.



2 Touch the screen button of the desired category.



- If the desired POI category is on the screen, touch its screen button 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.

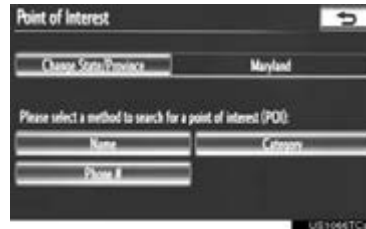


● When the desired category is touched, the POI name list screen is displayed.

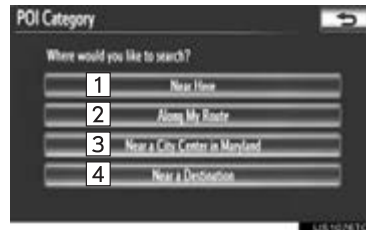
SEARCH BY “Category”

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

- 1 Press the “DEST” button.
- 2 Touch “Point of Interest” on the “Destination” screen.
- 3 Touch “Category”.



4 This screen is displayed.



- On this screen, the following operations can be performed:

No.	Function
1	Touch to set the search point from near the current position.
2	Touch to set the search point from along the selected route.
3	Touch to set the search point from near a city center.
4	Touch to set the search point from near a destination.

3 NAVIGATION SYSTEM

INFORMATION

- The names of POIs located within approximately 200 miles (320 km) from the selected search point can be displayed.

SETTING THE SEARCH POINT FROM NEAR HERE

- 1 Touch “Near Here”.
- The search point is set at the current position, and the “POI Category” screen will be displayed. (See page 66.)

SETTING THE SEARCH POINT FROM ALONG MY ROUTE

- 1 Touch “Along My Route”.
- The search point is set and the “POI Category” screen will be displayed. (See page 66.)

SETTING THE SEARCH POINT FROM NEAR CITY CENTER

- 1 Touch “Near a City Center in XX”.
- 2 Input the city center name.



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



- The search point is set and the “POI Category” screen will be displayed. (See page 66.)

*: XX represents the selected search area name.

■ SELECTING FROM THE LAST 5 CITIES

- 1 Touch “Near a City Center in XX*”.
- 2 Touch “Last 5 Cities”.



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

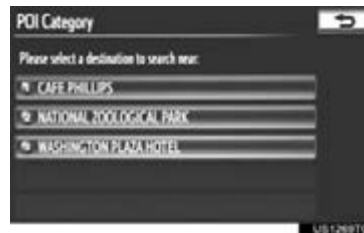


- The search point is set and the “POI Category” screen will be displayed. (See page 66.)

*: XX represents the selected search area name.

■ SETTING THE SEARCH POINT FROM NEAR A DESTINATION

- 1 Touch “Near a Destination”.
- 2 Touch the screen button of the desired destination.



- The search point is set and the “POI Category” screen will be displayed. (See page 66.)

3

NAVIGATION SYSTEM

■ TO SEARCH FOR POIS NEAR THE SEARCH POINT

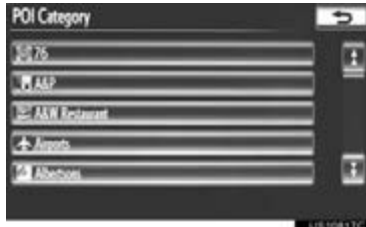
When the search point is set, the “POI Category” screen will be displayed.

1 Touch the desired POI category.



- If the desired POI category is not on the screen, touch “**List All Categories**” to list all POI categories.
- If “**Favorite POI Categories**” is touched, a search can be performed using the 6 POIs that have been previously set. For more details, see “POI CATEGORY CHANGE (SELECT POI ICONS)” on page 115.

2 Touch the desired POI category from the list.



3 Touch the screen button of the desired item.



- When the desired item is selected, the “Confirm Destination” screen may be displayed. If “**Go**” is touched on the “Confirm Destination” screen, the navigation system performs a search for the route. (See “STARTING ROUTE GUIDANCE” on page 74.)

SEARCH BY “Phone #”

- 1 Press the **“DEST”** button.
- 2 Touch **“Point of Interest”** on the “Destination” screen.
- 3 Touch **“Phone #”** on the “Point of Interest” screen.
- 4 Input a phone number.



- 5 After inputting a phone number, touch **“OK”**.
 - When a phone number is input, the “Confirm Destination” screen may be displayed. If **“Go”** is touched on the “Confirm Destination” screen, the navigation system performs a search for the route. (See “STARTING ROUTE GUIDANCE” on page 74.)
 - If there is more than 1 site with the same number, the following screen will be displayed.



- To set an address book entry as a destination using the phone number, the number must already be registered with the address book entry. (See page 105.)

INFORMATION

- If there is no match for the phone number input, a list of identical numbers with different area codes will be displayed.

DESTINATION SEARCH BY “Previous Destinations”

- 1 Press the **“DEST”** button.
- 2 Touch **“Previous Destinations”** on the “Destination” screen.
- 3 Touch the screen button of the desired destination.



- The previous starting point and up to 100 previously set destinations are displayed on the screen.
- “Delete”**: Touch to delete the previous destination. (To delete previous destinations, see page 72.)
- When the desired destination is selected, the “Confirm Destination” screen may be displayed. If **“Go”** is touched on the “Confirm Destination” screen, the navigation system performs a search for the route. (See “STARTING ROUTE GUIDANCE” on page 74.)

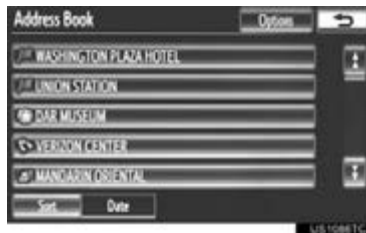
3 NAVIGATION SYSTEM

1. DESTINATION SEARCH

- 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 110.)

DESTINATION SEARCH BY “Address Book”

- 1 Press the **“DEST”** button.
- 2 Touch **“Address Book”** on the “Destination” screen.
- 3 Touch the screen button of the desired address book entry.



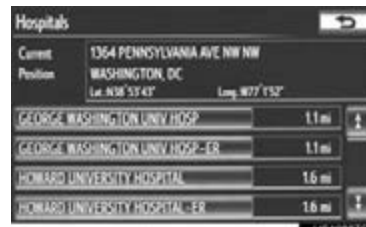
- A list of registered address book entries is displayed.
- “Options”:** Touch to register or edit address book entries. (See page 102.)
- When the desired address book entry is selected, the “Confirm Destination” screen may be displayed. If **“Go”** is touched on the “Confirm Destination” screen, the navigation system performs a search for the route. (See “STARTING ROUTE GUIDANCE” on page 74.)

DESTINATION SEARCH BY “Emergency”

- 1 Press the **“DEST”** button.
 - 2 Touch **“Emergency”** on the “Destination” screen.
- The display changes to a screen to select police stations, dealers, hospitals or fire stations.
- 3 Touch the desired emergency category.



- The selected emergency category is displayed.
- 4 Touch the screen button of the desired destination.



- When the desired destination is selected, the “Confirm Destination” screen may be displayed. If **“Go”** is touched on the “Confirm Destination” screen, the navigation system performs a search for the route. (See “STARTING ROUTE GUIDANCE” on page 74.)

INFORMATION

- The navigation system does not guide in areas where route guidance is unavailable. (See page 127.)
- The emergency function can be used even while driving.
- While driving, only the currently displayed items and the items on the next page can be viewed.

DESTINATION SEARCH BY “Intersection & Freeway”

There are 2 methods to search a destination by Intersection & Freeway:

- (a) Search by intersection
- (b) Search by freeway

- 1 Press the **“DEST”** button.
- 2 Touch **“Intersection & Freeway”** on the second page of the “Destination” screen.
- 3 Select the desired method.



SEARCH BY “Intersection”

- 1 Press 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 is located near the destination to be set, and touch **“OK”**.



- 5 Touch the screen button of the desired item.



- 6 Input the name of the second intersecting street.



3 NAVIGATION SYSTEM

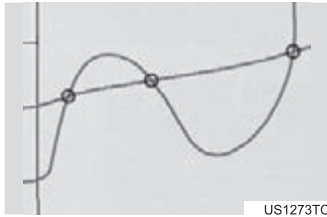
1. DESTINATION SEARCH

- 7 Touch the screen button of the desired item.



- When the desired item is selected, the “Confirm Destination” screen may be displayed. If “Go” is touched on the “Confirm Destination” screen, the navigation system performs a search for the route. (See “STARTING ROUTE GUIDANCE” on page 74.)

INFORMATION



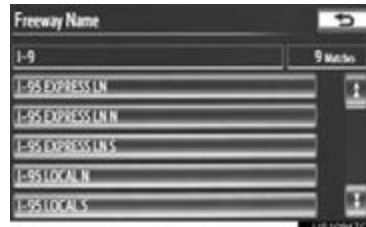
- If the same 2 streets cross at more than 1 intersection, the screen changes and displays the menu to select the city name where the streets intersect. Select the city, and the map location of the selected destination and the route preference. (See “STARTING ROUTE GUIDANCE” on page 74.)

SEARCH BY “Freeway Entrance / Exit”

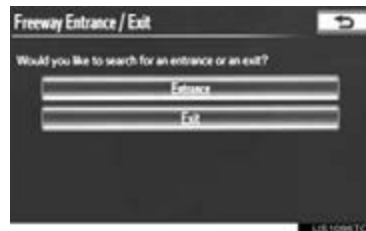
- 1 Press the “DEST” button.
- 2 Touch “Intersection & Freeway” on the second page of the “Destination” screen.
- 3 Touch “Freeway Entrance / Exit” on the “Intersection & Freeway” screen.
- 4 Input a freeway name.



- 5 Touch the screen button of the desired freeway.



- 6 Select “Entrance” or “Exit”.



- Input a freeway entrance or exit name, and touch **“OK”**.



- Touch the screen button of the desired entrance or exit name.



- When the desired entrance or exit is selected, the **“Confirm Destination”** screen may be displayed. If **“Go”** is touched on the **“Confirm Destination”** screen, the navigation system performs a search for the route. (See **“STARTING ROUTE GUIDANCE”** on page 74.)

INFORMATION

- 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).

DESTINATION SEARCH BY “Map”

- Press the **“DEST”** button.
- Touch **“Map”** on the second page of the **“Destination”** screen.
- Scroll the map to the desired point.



- Touch **“Go to”**.
 - The navigation system performs a search for the route. (See **“STARTING ROUTE GUIDANCE”** on page 74.)

INFORMATION

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

DESTINATION SEARCH BY “Coordinates”

- 1 Press the “**DEST**” button.
- 2 Touch “**Coordinates**” on the second page of the “Destination” screen.
- 3 Input the latitude and the longitude.



- 4 After inputting the latitude and longitude, touch “**OK**”.
- When the desired screen button is selected, the “Confirm Destination” screen may be displayed. If “**Go**” is touched on the “Confirm Destination” screen, the navigation system performs a search for the route. (See “STARTING ROUTE GUIDANCE” on page 74.)

DELETING SET DESTINATIONS

A set destination can be deleted.

- 1 Press the “**DEST**” button.
 - 2 Touch “**Del.Dest.**” on the “Destination” screen.
- When more than 1 destination is set, a list will be displayed on the screen.
- 3 Touch the destination to be deleted.



“**Delete All**”: Touch to delete all destinations on the list.

- 4 Touch **“Yes”** to delete the destination(s).



- A message appears to confirm the request to delete.
 - If **“Yes”** is touched, the data cannot be recovered. If more than 1 destination has been set, the system will recalculate the route(s) to the set destination(s) as necessary.
 - If **“No”** is touched, the previous screen will be displayed.
- Set destinations can also be deleted by touching **“Route”**. (See **“DELETING DESTINATIONS”** on page 86.)

1. DESTINATION SEARCH

2. STARTING ROUTE GUIDANCE

When **“Map”** is touched on the **“Confirm Destination”** screen, the map screen will be displayed. The map location of the selected destination can be set as a destination.

- 1 Scroll the map to the desired point.



“Adjust Location”: Touch to adjust the position in smaller increments.



- When an arrow facing the desired point is touched, the map scrolls in that direction.
- The scroll stops when the selection of the arrow is released.

- 2 Touch **“Go to [location icon]”**.

- The system starts route search and displays recommended routes.

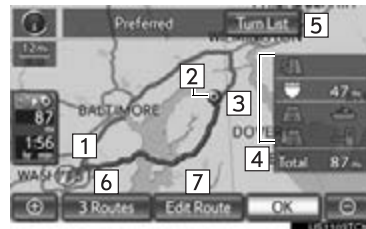
- If a destination has already been set, **“Go to [location icon]”** and **“Add to Route”** will be displayed.

“Go to [location icon]”: Touch to delete the existing destination(s) and set a new one.

“Add to Route”: Touch to add a destination.

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

- 3 To start guidance, touch **“OK”**.



No.	Function
1	Current position
2	Destination point
3	Type of route and its distance
4	Distance of the entire route

No.	Function
5	Touch to display a list of the turns required to reach the destination.
6	Touch to select the desired route from 3 possible routes. (See page 76.)
7	Touch to change the route. (See page 77.)

- Guidance can be paused or resumed. (See "PAUSING AND RESUMING GUIDANCE" on page 91.)
- If "OK" is touched until a beep sounds, demo mode will start. Press the "MAP/VOICE" button to end demo mode.

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 not indicate such changed information.

INFORMATION

- 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. If this occurs, set the destination again.
- If a destination that is not located on a road is set, the vehicle will be guided to the point on a road nearest to the destination. The road nearest to the point selected is set as the destination.

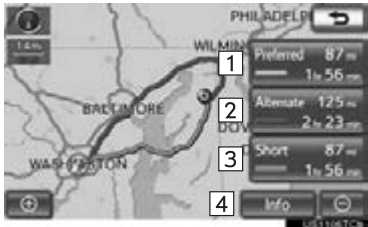
1. DESTINATION SEARCH

3 ROUTES SELECTION

1 Touch "3 Routes".



2 Touch "Preferred", "Alternate" or "Short".



	Preferred	Alternate	Short
1	1hr 56 min	2hr 23 min	1hr 56 min
2	87 mi	125 mi	87 mi
3			
4	47 mi	94 mi	47 mi
5			

No.	Function
1	Time necessary for the entire trip
2	Distance of the entire trip
3	Toll road
4	Freeway
5	Ferry

No.	Function
1	Touch to display the recommended route.
2	Touch to display the alternative route.
3	Touch to display the route that is the shortest distance to the set destination.
4	Touch to display the information shown below about each of the 3 routes.

EDIT ROUTE

Conditions for the route to the destination can be set again.

1 Touch **“Edit Route”**.



2 This screen is displayed.



No.	Function	Page
1	Touch to add destinations.	85
2	Touch to delete destinations.	86
3	Touch to reorder destinations.	85
4	Touch to display the choices available when setting the conditions the system uses to determine the route to the destination.	89

INFORMATION

- Even if the **“Freeways”** indicator is dimmed, the route cannot avoid including a freeway in some cases. (See page 89.)
- If the calculated route includes a trip by ferry, the route guidance system shows a sea route. After you travel by ferry, the current position may be incorrect. Upon reception of GPS signals, it is automatically corrected.

3

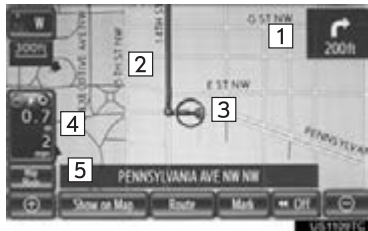
NAVIGATION SYSTEM

2. ROUTE GUIDANCE

1. ROUTE GUIDANCE SCREEN

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

SCREEN LAYOUT



No.	Function
1	Distance to the next turn and an arrow indicating the turning direction
2	Guidance route
3	Current position
4	Distance and travel/arrival time to the destination
5	Current street name

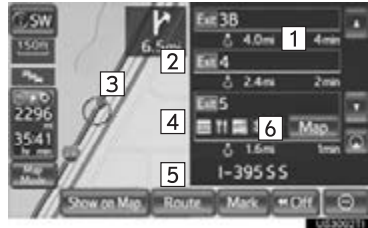
INFORMATION

- 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 a road that should not be traveled on.
- When arriving at the set 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.

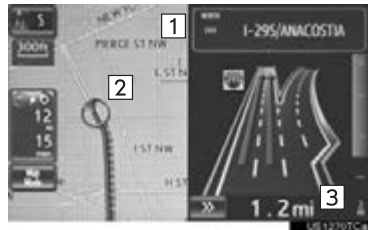
This screen displays the distance to the next junction/exit, or POIs in the vicinity of the freeway exit.



No./Icon	Function
1	Distance from the current position to the exit or junction
2	Exit number and junction name
3	Current position
4	POIs that are close to a freeway exit
5	Current street name
6	Touch to display the selected map of the exit vicinity.
	Touch to scroll to farther junctions or exits.
	Touch to scroll to closer junctions or exits.
	Touch to display the closest 3 junctions or exits.

**WHEN APPROACHING A
FREEWAY EXIT OR JUNCTION**

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



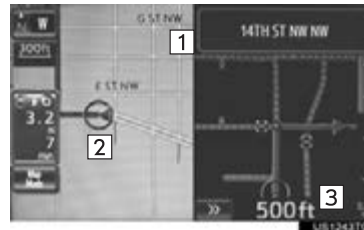
No.	Function
1	Next street name
2	Current position
3	Distance from the current position to the exit or junction

»: Touch to hide the freeway guidance screen.

- Touch **“Intersection”**, or press the **“MAP/VOICE”** button, to change back to the freeway guidance screen.

**WHEN APPROACHING AN
INTERSECTION**

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



No.	Function
1	Next street name
2	Current position
3	Distance to the intersection

»: Touch to hide the intersection guidance screen.

- Touch **“Intersection”**, or press the **“MAP/VOICE”** button, to change back to the intersection guidance screen.

3
NAVIGATION SYSTEM

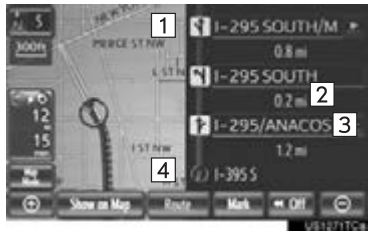
2. ROUTE GUIDANCE

OTHER SCREENS

TURN LIST SCREEN

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

- 1 Touch **“Turn List”** during guidance to display the turn list.

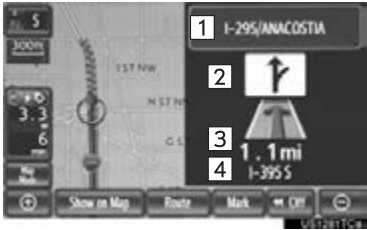


No.	Function
1	Turn direction
2	Distance between turns
3	Next street or destination name
4	Current street name

ARROW SCREEN

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

- 1 Touch **“Turn-by-Turn Arrow”** during guidance to display the arrow screen.

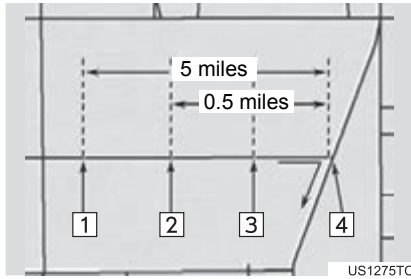


No.	Function
1	Exit number or street name
2	Turn direction
3	Distance to the next turn
4	Current street name

2. ROUTE GUIDANCE

2. TYPICAL VOICE GUIDANCE PROMPTS

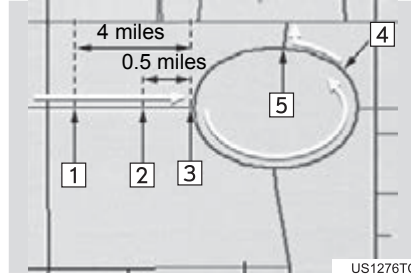
As the vehicle approaches an intersection, or point, where maneuvering the vehicle is necessary, the system's voice guidance will provide various messages.



No.	Voice guidance
1	"Proceed about 5 miles to Main street."
2	"In half of a mile, right turn onto Main street."
3	"Next right."/"Right turn ahead."
4	(Beep sound only)

INFORMATION

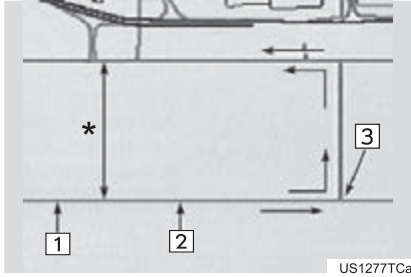
- The street names may not be pronounced correctly or clearly due to the text-to-speech function.
- On freeways, interstates or other highways with higher speed limits, the voice guidance will be made at earlier points than on city streets in order to allow time to maneuver the vehicle.



No.	Voice guidance
1	"Proceed about 4 miles to the traffic circle."
2	"In half of a mile, traffic circle ahead and then the 3rd exit onto Main street."
3	"The 3rd exit ahead."
4	"The exit ahead."
5	(Beep sound only)

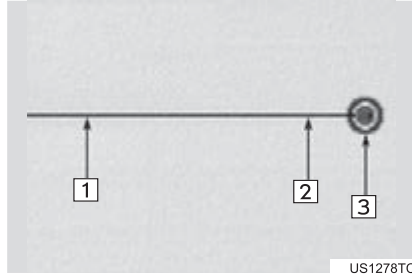
3
NAVIGATION SYSTEM

2. ROUTE GUIDANCE



*: The system indicates a U-turn if the distance between 2 one-way roads (of opposite directions) is less than 50 ft. (15 m) in residential areas or 164 ft. (50 m) in non-residential areas.

No.	Voice guidance
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.

No.	Voice guidance
1	"In half of a mile, your destination is ahead."
2	"Your destination is ahead."
3	"You have arrived at your destination. The route guidance is now finished."

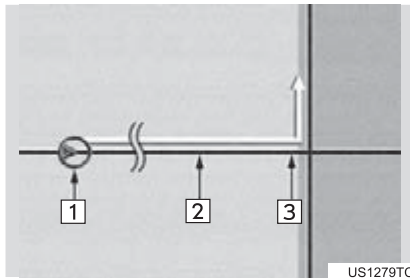
- If a voice guidance command cannot be heard, press the **"MAP/VOICE"** button to hear it again.
- To adjust the voice guidance volume, see **"VOICE VOLUME"** on page 53.

INFORMATION

- If the system cannot determine the current position correctly (in cases of poor GPS signal reception), the voice guidance may be early or late.

ROUTES INCLUDING IPD ROADS

Even when on IPD roads (roads that are not completely digitized in our database), you will be guided along the searched route via voice guidance.



- After it has made a route calculation, the system will advise the user whether IPD roads are included in the route or not.
- The portion of the route that covers IPD roads is indicated by light blue.

No.	Voice guidance
1	"On the way to your destination, there will be roads with incomplete data."
2	"In half of a mile, left turn."
3	"Next left. Upcoming roads have incomplete data. Please carefully observe the local traffic restrictions, as they may not match the navigation guidance."

- IPD roads are roads that are not yet completely digitized in our database. However, their geometry, name and administrative coding are already known.

CAUTION

- Be sure to obey the traffic regulations and keep the road condition in mind especially when you are driving on IPD roads. The route guidance may not have the updated information such as the direction of a one way street.

2. ROUTE GUIDANCE

3. 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 direction of the destination are displayed.

When driving on the guidance route with more than 1 destination set, the distance and estimated travel/arrival time from the current position to each destination are displayed.

- 1 Touch the screen button indicated by the arrow.



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



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

Icon	Function
	Estimated travel time is displayed.
	Estimated arrival time is displayed.
	Touch to switch to estimated arrival time.
	Touch 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 are calculated based on the set vehicle speed information. (See "DRIVING SPEEDS" on page 113.) However, when the vehicle is not on the guidance route, the distance is the linear distance between the current position and the destination.

2. ROUTE GUIDANCE

4. SETTING AND DELETING DESTINATIONS

ADDING DESTINATIONS

Destinations can be added and routes can be searched again.

- 1 Touch **"Route"**.



- 2 Touch **"Add"**.



- 3 Input an additional destination in the same way as a destination search. (See "DESTINATION SEARCH" on page 56.)
- 4 Touch the desired **"Add Destination Here"** to insert the new destination into the route.



REORDERING DESTINATIONS

When more than 1 destination is set, the arrival order of the destinations can be changed.

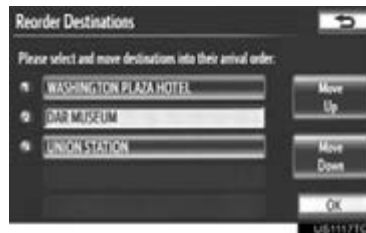
- 1 Touch **"Route"**.



- 2 Touch **"Reorder"**.



- 3 Touch the desired destination and touch **"Move Up"** or **"Move Down"** to change the arrival order.



3

NAVIGATION SYSTEM

2. ROUTE GUIDANCE

- 4 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 1 destination is set, a list will be displayed on the screen.

- 3 Touch the destination to be deleted.



“Delete All”: Touch to delete all destinations on the list.

- A message appears to confirm the request to delete.
- 4 Touch **“Yes”** to delete the destination(s).
 - If **“Yes”** is touched, the data cannot be recovered. If more than 1 destination has been set, the system will recalculate the route(s) to the set destination(s) as necessary.
 - If **“No”** is touched, the previous screen will be displayed.

2. ROUTE GUIDANCE

5. SETTING ROUTE

DETOUR SETTING

While the route guidance is operating, the route can be changed to detour around a section of the route where a delay is caused by road repairs, or an accident, etc.

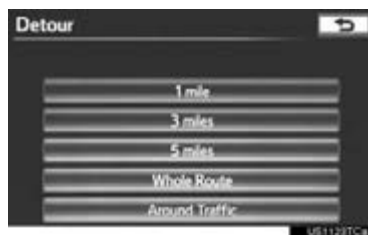
- 1 Touch **“Route”**.



- 2 Touch **“Detour”**.



- 3 Touch a screen button to select the desired detour distance.

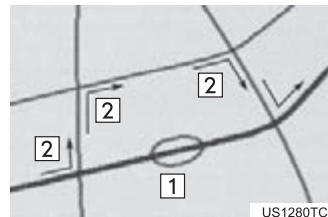


“1 mile (km)”, **“3 miles (km)”** or **“5 miles (km)”**: Touch one of these screen buttons to start the detour process. After detouring, the system returns to the original guidance route.

“Whole Route”: Touch to make the system calculate an entire new route to the destination.

“Around Traffic”: Touch to make the system search for the route based on the traffic congestion information received from XM NavTraffic®. For details, see “XM NavTraffic®” on page 298.

INFORMATION



- 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, an accident, etc.

2 This route indicates the detour suggested by the system.

- When the vehicle is on a freeway, the detour distance selections are 5, 15 and 25 miles (or 5, 15 and 25 km if units are in km).

- The system may not be able to calculate a detour route depending on the selected distance and surrounding road conditions.

3

NAVIGATION SYSTEM

2. ROUTE GUIDANCE

ROUTE OVERVIEW

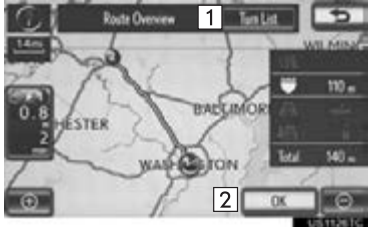
1 Touch **“Route”**.



2 Touch **“Overview”**.



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



No.	Function
1	Touch to display a list of the turns required to reach the destination.
2	Touch to start guidance.

TURN LIST

1 Touch or to skip to the next page of the list of roads. Touch and hold or to scroll through the list of roads.



: This mark indicates the direction in which you should turn at the intersection.

“Map”: The selected point is displayed on the map screen.



INFORMATION

- 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 2 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.

ROUTE PREFERENCE

TO SELECT ROUTE TYPE

The Preferred, Short or Alternative route can be selected.

- 1 Touch **"Route"**.



- 2 Touch **"Preferences"**.



- 3 Touch **"Preferred"**, **"Short"** or **"Alternate"** and touch **"OK"**.



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



"OK": Touch to start guidance.

"Edit Route": Touch to change a route. (See page 77.)

TO SELECT ROUTE FEATURES

A number of choices are available when setting the conditions the system uses to determine the route to the destination.

- 1 Touch **"Route"**.



3 NAVIGATION SYSTEM

2. ROUTE GUIDANCE

- 2 Touch **“Preferences”** to display conditions that can be selected when the system determines the route to the destination.



- 3 Select the desired route preferences.



- The system will avoid using routes that include items whose indicators are off.
- 4 After selecting the desired route preference, touch **“OK”**.

STARTING ROUTE FROM ADJACENT ROAD

The route guidance can be started from an adjacent road.
(e.g. When route guidance is set on the freeway, but the vehicle is driven parallel along the freeway.)

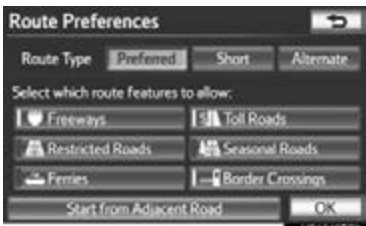
- 1 Touch **“Route”**.



- 2 Touch **“Preferences”**.



- 3 Touch **“Start from Adjacent Road”**.



INFORMATION

- When there is no adjacent road, this screen 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.

TO RESUME GUIDANCE

1 Touch "Route".



2 Touch "Resume Guidance".



- The map screen, with the current position displayed, will be returned to.

3

NAVIGATION SYSTEM

SHOW ON MAP

DISPLAY POI ICONS

POI icons such as gas stations and restaurants can be displayed on the map screen. Their location can also be set as a destination and used for route guidance.

- 1 Touch **“Show on Map”**.



- 2 Touch **“Select POI”** to display a particular type of POI icon on the screen.



- When the POI icons to be displayed on the map screen have already been set, **“Change POI”** is displayed.



- A screen with a limited choice of POIs will be displayed. (To change the displayed POI list, see page 115.)

SELECTING POI ICONS TO BE DISPLAYED

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

- 1 Touch the desired POI category to display POI location icons on the map screen.



- By touching the desired POI category and then touching **“OK”**, the selected POI icons are displayed on the map screen.
- To turn off the POI icons on the map screen, touch **“Clear”**.

“Other POIs”: Touch to display other POIs categories if the desired POIs cannot be found on the limited choice screen.

“Find Local POI”: Touch to search for the nearest POIs. Then select one of the categories. The system will list the points within 20 miles (32 km). (See page 93.)

- 2 Touch **“Other POIs”** on the “Select POI Icons” screen.

- When a POI category is selected from either the limited list or the complete list, the icons of those locations will be displayed on the map screen.

3 Touch the desired POI categories.



- The selected category's icon will appear on the top left of the screen.
- By touching 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.



- Touch the desired POI categories from the list.
 - The selected category icon appears on the top left of the screen.
 - By touching 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 20 miles (32 km) of the current position will be listed from among the selected categories.

1 Touch **"Find Local POI"**.



2 Touch the screen button of the desired POI.

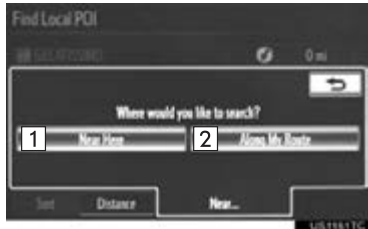


- The selected POIs are displayed on the map screen.
- "Near...":** Touch to search for POIs near the current position or along the route.

3

NAVIGATION SYSTEM

2. ROUTE GUIDANCE



No.	Function
1	Touch to display the list of POIs near the current position.
2	Touch to display the list of POIs along the route.

TO SET A POI AS A DESTINATION

One of the Point of Interest icons can be selected on the map screen as a destination and can be used for route guidance.

- 1 Directly touch the desired POI icon to set it 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 position to the POI.

- 2 When the desired POI 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 74.)

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

Up to 124 miles (200 km) of the traveled route can be stored and retraced on the display.

INFORMATION

- This feature is available when the map scale is more than 30 miles (50 km).

TO START RECORDING THE ROUTE TRACE

- 1 Touch "Show on Map".



- 2 Touch "Route Trace".



- The "Route Trace" indicator is highlighted.

TO STOP RECORDING THE ROUTE TRACE

- 1 Touch "Show on Map".



- 2 Touch "Route Trace".



- Touching "Yes" stops recording and the route trace remains displayed on the screen.
- Touching "No" stops recording and the route trace is erased.

3

NAVIGATION SYSTEM

3. ADDRESS BOOK

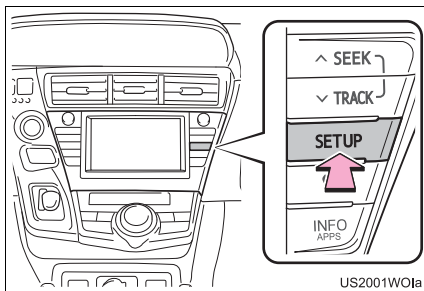
1. NAVIGATION SETTINGS

Points or areas on the map can be registered.

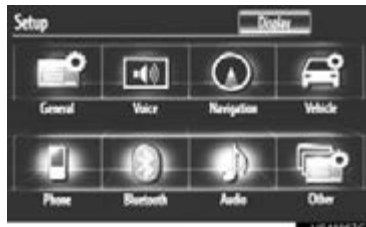
The registered points can be used on the "Destination" screen. (See "DESTINATION SEARCH BY HOME" on page 57, and "DESTINATION SEARCH BY "Address Book"" on page 68.)

Registered areas to avoid, will be avoided when the system searches for a route.

- 1 Press the "SETUP" button.



- 2 Touch "Navigation".



- 3 Touch the desired items to be set.



- On this screen, the following operations can be performed:

No.	Function	Page
1	Touch to set home.	97
2	Touch to set preset destinations.	99
3	Touch to set the address book.	101
4	Touch to set areas to avoid.	106
5	Touch to delete previous destinations.	110
6	Touch to set detailed navigation settings.	112

SETTING UP THE “Home”

If home has been registered, that information can be recalled by touching **“Go Home”** on the “Destination” screen. (See “DESTINATION SEARCH BY HOME” on page 57.)

- 1 Press the **“SETUP”** button.
- 2 Touch **“Navigation”** on the “Setup” screen.
- 3 Touch **“Home”**.



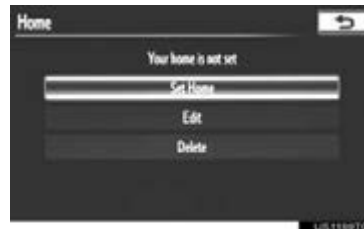
- 4 Touch the desired screen button.



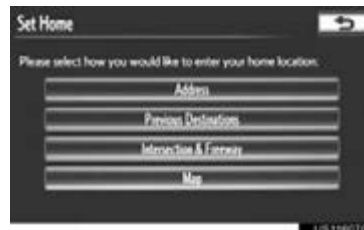
No.	Function	Page
1	Registering home	97
2	Editing home	98
3	Deleting home	98

REGISTERING HOME

- 1 Press the **“SETUP”** button.
- 2 Touch **“Navigation”** on the “Setup” screen.
- 3 Touch **“Home”** on the “Navigation Settings” screen.
- 4 Touch **“Set Home”**.



- 5 Touch the desired screen button and enter the location in the same way as for a destination search. (See “DESTINATION SEARCH” on page 56.)



- When registration of home is completed, the “Edit Home” screen will be displayed.

- 6 Touch **“OK”**.

- To edit registered information, see “EDITING HOME” on page 98.

3
NAVIGATION SYSTEM

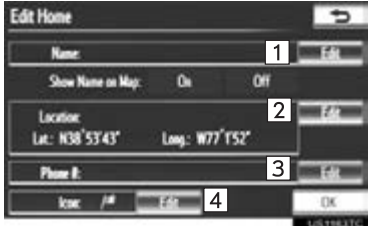
3. ADDRESS BOOK

EDITING HOME

- 1** Press the **“SETUP”** button.
- 2** Touch **“Navigation”** on the **“Setup”** screen.
- 3** Touch **“Home”** on the **“Navigation Settings”** screen.
- 4** Touch **“Edit”**.



- 5** Touch **“Edit”** next to the item to be edited.



No.	Function	Page
1	Touch to edit the home name. The name can be displayed on the map.	104
2	Touch to edit location information.	104
3	Touch to edit the phone number.	105
4	Touch to change the icon to be displayed on the map.	103

“Show Name on Map”: The name of a home can be set to be displayed on the map by touching **“On”** or **“Off”**. (See page 104.)

- 6** Touch **“OK”**.

DELETING HOME

- 1** Press the **“SETUP”** button.
- 2** Touch **“Navigation”** on the **“Setup”** screen.
- 3** Touch **“Home”** on the **“Navigation Settings”** screen.
- 4** Touch **“Delete”**.



- 5** Touch **“Yes”** to delete home and touch **“No”** to cancel the deletion.

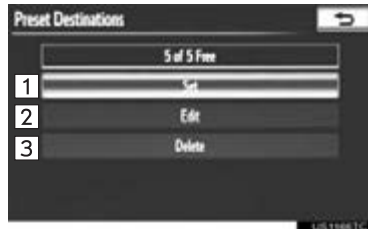
SETTING UP THE “Preset Destinations”

If preset destination has been registered, that information can be recalled by using “Preset Destinations” on the “Navigation Settings” screen. (See “DESTINATION SEARCH BY PRESET DESTINATIONS” on page 57.)

- 1 Press the “**SETUP**” button.
- 2 Touch “**Navigation**” on the “Setup” screen.
- 3 Touch “**Preset Destinations**”.



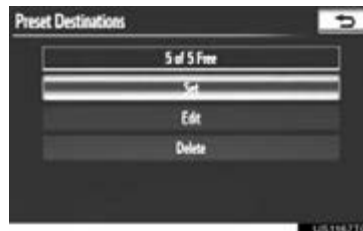
- 4 Touch the desired screen button.



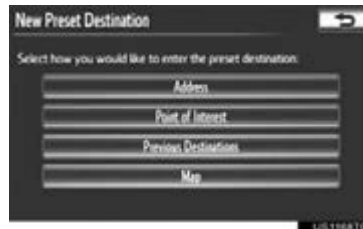
No.	Function	Page
1	Registering a preset destination	99
2	Editing a preset destination	100
3	Deleting a preset destination	101

REGISTERING PRESET DESTINATIONS

- 1 Press the “**SETUP**” button.
- 2 Touch “**Navigation**” on the “Setup” screen.
- 3 Touch “**Preset Destinations**” on the “Navigation Settings” screen.
- 4 Touch “**Set**”.



- 5 Touch the desired screen button and enter the location in the same way as for a destination search. (See “DESTINATION SEARCH” on page 56.)



3 NAVIGATION SYSTEM

- 6 Touch a position for this preset destination.



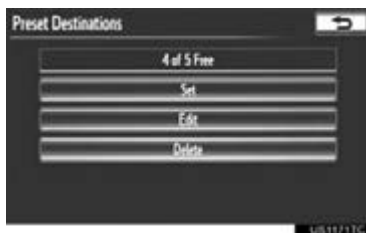
- When registration of a preset destination is completed, the “Edit Preset Destination” screen will be displayed.

- 7 Touch “OK”.

- To edit registered information, see “EDITING PRESET DESTINATIONS” on page 100.

EDITING PRESET DESTINATIONS

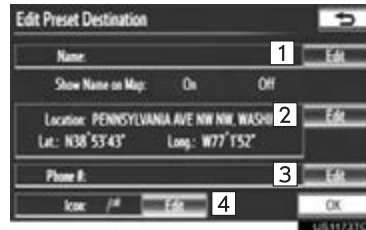
- 1 Press the “SETUP” button.
- 2 Touch “Navigation” on the “Setup” screen.
- 3 Touch “Preset Destinations” on the “Navigation Settings” screen.
- 4 Touch “Edit”.



- 5 Touch the screen button of the desired preset destination.



- 6 Touch “Edit” next to the item to be edited.



No.	Function	Page
1	Touch to edit the preset destination name. The name can be displayed on the map.	104
2	Touch to edit location information.	104
3	Touch to edit the phone number.	105
4	Touch to change the icon to be displayed on the map.	103

“Show Name on Map”: The name of a preset destination can be set to be displayed on the map by touching “On” or “Off”. (See page 104.)

- 7 Touch “OK”.

DELETING PRESET DESTINATIONS

- 1 Press the **“SETUP”** button.
- 2 Touch **“Navigation”** on the “Setup” screen.
- 3 Touch **“Preset Destinations”** on the “Navigation Settings” screen.
- 4 Touch **“Delete”**.



- 5 Touch the preset destination to be deleted.



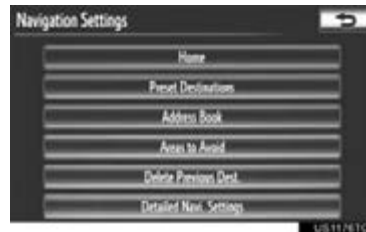
Screen button	Function
“Select All”	Touch to select all preset destinations.
“Unselect All”	Touch to cancel the “Select All” function.

- 6 Touch **“Delete”**.
- 7 Touch **“Yes”** to delete the preset destination and touch **“No”** to cancel the deletion.

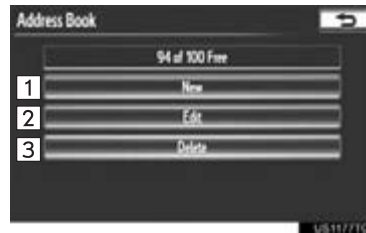
SETTING UP THE “Address Book”

Points or areas on the map can be registered.

- 1 Press the **“SETUP”** button.
- 2 Touch **“Navigation”** on the “Setup” screen.
- 3 Touch **“Address Book”**.



- 4 Touch the desired screen button.



No.	Function	Page
1	Registering address book entries	102
2	Editing address book entries	102
3	Deleting address book entries	105

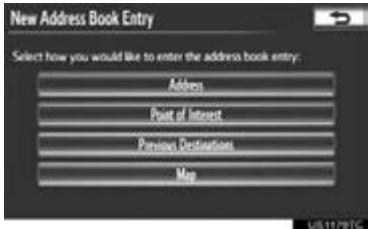
3. ADDRESS BOOK

REGISTERING ADDRESS BOOK ENTRIES

- 1 Press the **“SETUP”** button.
- 2 Touch **“Navigation”** on the **“Setup”** screen.
- 3 Touch **“Address Book”** on the **“Navigation Settings”** screen.
- 4 Touch **“New”**.



- 5 Touch the desired screen button and enter the location in the same way as for a destination search. (See **“DESTINATION SEARCH”** on page 56.)



- 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 **“EDITING ADDRESS BOOK ENTRIES”** on page 102.

INFORMATION

- Up to 100 address book entries can be registered.

EDITING ADDRESS BOOK ENTRIES

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

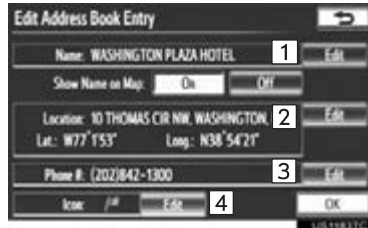
- 1 Press the **“SETUP”** button.
- 2 Touch **“Navigation”** on the **“Setup”** screen.
- 3 Touch **“Address Book”** on the **“Navigation Settings”** screen.
- 4 Touch **“Edit”**.



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



- 6 Touch **“Edit”** next to the item to be edited.



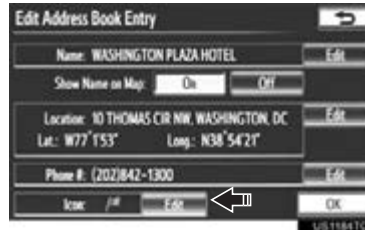
No.	Function	Page
1	Touch to edit the address book entry name. The name can be displayed on the map.	104
2	Touch to edit location information.	104
3	Touch to edit the phone number.	105
4	Touch to change the icon to be displayed on the map.	103

“Show Name on Map”: The name of an address book entry can be set to be displayed on the map by touching **“On”** or **“Off”**. (See page 104.)

- 7 Touch **“OK”**.

TO CHANGE “Icon”

- 1 Touch **“Edit”**.



- 2 Touch the desired icon.



- Change pages by touching the **“Page 1”**, **“Page 2”** or **“With Sound”** tab.

SOUND ICONS

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

- 1 Touch the **“With Sound”** tab on the “Address Book Entry Icon” screen.



- 2 Touch the desired sound icon.



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

3 NAVIGATION SYSTEM

3. ADDRESS BOOK

- 3 Touch either  or  to adjust the direction. Then touch “OK”.

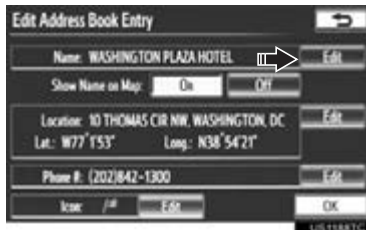


INFORMATION

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

TO CHANGE “Name”

- 1 Touch “Edit”.



- 2 Enter the name using the alphanumeric keys.



- Up to 70 characters can be entered.
- 3 Touch “OK”.
- The previous screen will be displayed.

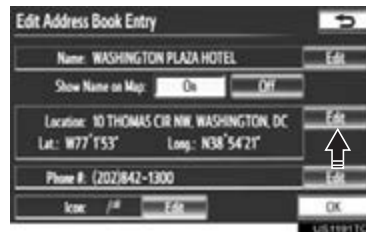
DISPLAYING ADDRESS BOOK ENTRY NAMES


- 1 Touch “On” to display the name on the map and touch “Off” to not display it.



TO CHANGE “Location”

- 1 Touch “Edit”.



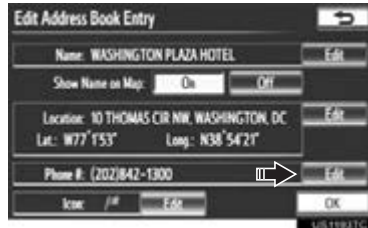
- 2 Touch one of the 8 directional screen buttons to move the cursor  to the desired point on the map.



- 3 Touch “OK”.
- The previous screen will be displayed.

TO CHANGE “Phone #” (PHONE NUMBER)

- 1 Touch **“Edit”**.



- 2 Enter the number using the number keys.



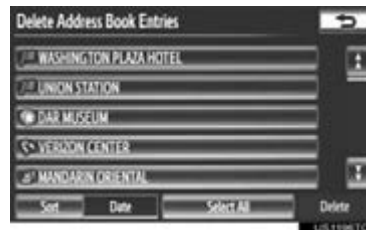
- 3 Touch **“OK”**.
 - The previous screen will be displayed.

DELETING ADDRESS BOOK ENTRIES

- 1 Press the **“SETUP”** button.
- 2 Touch **“Navigation”** on the “Setup” screen.
- 3 Touch **“Address Book”** on the “Navigation Settings” screen.
- 4 Touch **“Delete”**.



- 5 Touch the address to be deleted.



Screen button	Function
“Select All”	Touch to select all registered addresses.
“Unselect All”	Touch to cancel the “Select All” function.

- 6 Touch **“Delete”**.
- 7 Touch **“Yes”** to delete the address book entries and touch **“No”** to cancel the deletion.

3
NAVIGATION SYSTEM

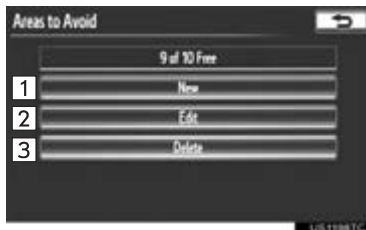
SETTING UP THE “Areas to Avoid”

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

- 1 Press the “**SETUP**” button.
- 2 Touch “**Navigation**” on the “Setup” screen.
- 3 Touch “**Areas to Avoid**”.



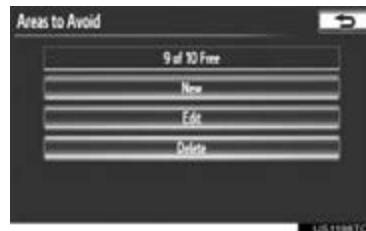
- 4 Touch the desired screen button.



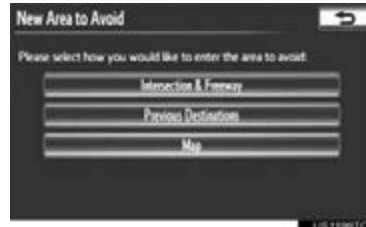
No.	Function	Page
1	Registering areas to avoid	106
2	Editing areas to avoid	107
3	Deleting areas to avoid	110

REGISTERING AREAS TO AVOID

- 1 Press the “**SETUP**” button.
- 2 Touch “**Navigation**” on the “Setup” screen.
- 3 Touch “**Areas to Avoid**” on the “Navigation Settings” screen.
- 4 Touch “**New**”.



- 5 Touch the desired screen button and 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 56.)





- 6 Scroll the map to the desired point.



“Adjust Location”: Touch 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”**.

- When registration of an area to avoid is completed, the “Area to Avoid” screen will be displayed.

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.

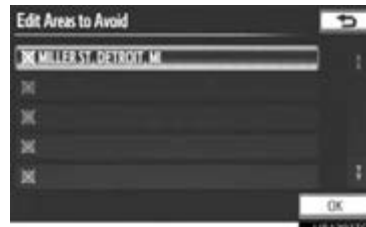
EDITING AREA TO AVOID

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

- 1 Press the **“SETUP”** button.
- 2 Touch **“Navigation”** on the “Setup” screen.
- 3 Touch **“Areas to Avoid”** on the “Navigation Settings” screen.
- 4 Touch **“Edit”**.



- 5 Touch the area to be avoided.



- 6 Touch “Edit” next to the item to be edited.



No.	Function	Page
1	Touch to edit the name of the area to avoid. The name can be displayed on the map.	108
2	Touch to edit area location.	109
3	Touch to edit area size.	109

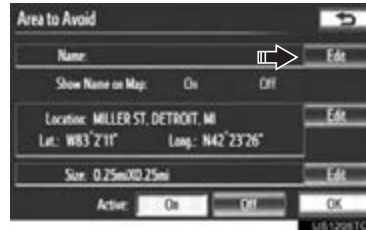
“Show Name on Map”: The name of an area to be avoided can be set to be displayed on the map by touching “On” or “Off”. (See page 108.)

“Active”: The area to avoid feature can be set to “On” or “Off”.

- 7 Touch “OK”.

TO CHANGE “Name”

- 1 Touch “Edit”.



- 2 Enter the name using the alphanumeric keys.



- Up to 70 characters can be entered.

- 3 Touch “OK”.

- The previous screen will be displayed.

DISPLAYING NAMES OF AREAS TO BE AVOIDED


- 1 Touch “On”, next to “Show Name on Map”, to display the name of an area to be avoided on the map. Touch “Off” not to display it.



■ TO CHANGE “Location”

- 1 Touch “Edit”.



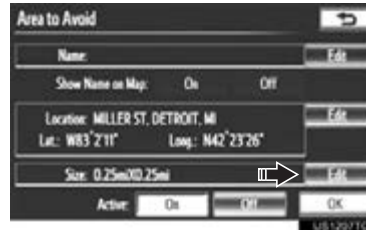
- 2 Touch one of the 8 directional screen buttons to move the cursor  to the desired point on the map.





- 3 Touch “OK”.
 - The previous screen will be displayed.

■ TO CHANGE “Size”

- 1 Touch “Edit”.



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



- 3 Touch “OK”.
 - The previous screen will be displayed.

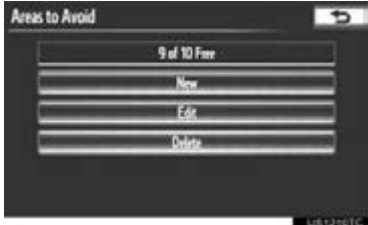
3

NAVIGATION SYSTEM

3. ADDRESS BOOK

DELETING AREAS TO AVOID

- 1** Press the **“SETUP”** button.
- 2** Touch **“Navigation”** on the **“Setup”** screen.
- 3** Touch **“Areas to Avoid”** on the **“Navigation Settings”** screen.
- 4** Touch **“Delete”**.



- 5** Touch the area to be deleted.



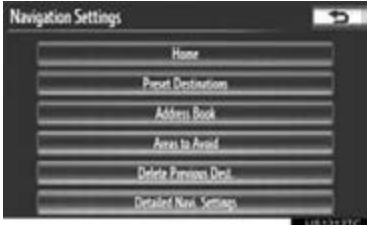
Screen button	Function
“Select All”	Touch to select all registered areas to avoid.
“Unselect All”	Touch to cancel the “Select All” function.

- 6** Touch **“Delete”**.
- 7** Touch **“Yes”** to delete the area(s) and touch **“No”** to cancel the deletion.

DELETING PREVIOUS DESTINATIONS

Previous destinations can be deleted.

- 1** Press the **“SETUP”** button.
- 2** Touch **“Navigation”** on the **“Setup”** screen.
- 3** Touch **“Delete Previous Dest.”**.



- 4** Touch the previous destination to be deleted.



Screen button	Function
"Select All"	Touch to select all previous destinations.
"Unselect All"	Touch to cancel the "Select All" function.

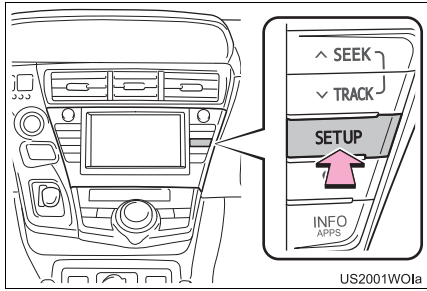
- 5 Touch "**Delete**".
- 6 Touch "**Yes**" to delete the destination(s) and touch "**No**" to cancel the deletion.

4. SETUP

1. DETAILED NAVIGATION SETTINGS

Settings are available for driving speeds, favorite POI categories, automatic screen change, “◀◀ Off” function, etc.

1 Press the “**SETUP**” button.



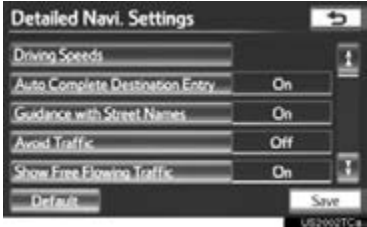
2 Touch “**Navigation**”.



3 Touch “**Detailed Navi. Settings**”.

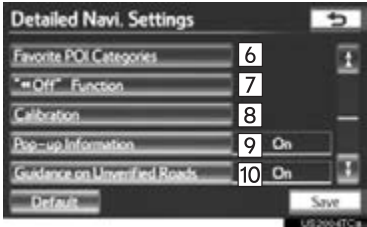
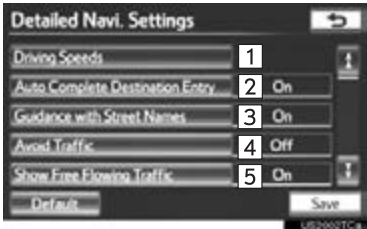


4 Touch the items to be set.



5 Touch “**Save**”.

SCREENS FOR NAVIGATION SETTINGS



● On this screen, the following functions can be performed:

No.	Function
1	Touch to set the average cruising speed. (See "DRIVING SPEEDS" on page 113.)
2	Touch to set the automatic input function to "On" or "Off".
3	Touch to set the voice guidance for the next street name to "On" or "Off" during route guidance.
4	Touch to set the automatic reroute of the guidance route to avoid heavy congestion to "On" or "Off". (See "AUTO AVOID TRAFFIC" on page 114.)
5	Touch to set the indication of freely flowing traffic by the arrow to "On" or "Off". (See "SHOW FREE FLOWING TRAFFIC" on page 115.)
6	Touch to set displayed POI icon categories. (See "POI CATEGORY CHANGE (SELECT POI ICONS)" on page 115.)
7	Touch to set screen buttons to be displayed on the map screen when "◀◀ Off" is selected. (See "SCREEN LAYOUT FUNCTION (◀◀ Off) Function)" on page 116.)

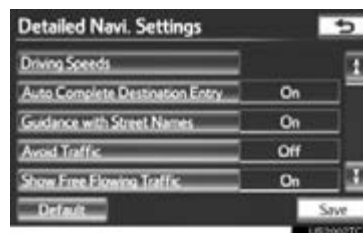
No.	Function
8	Touch to adjust the current position mark manually. Miscalculation of the distance caused by tire replacement can also be adjusted. (See "CURRENT POSITION/TIRE CHANGE CALIBRATION" on page 117.)
9	Touch to set the display of pop-up information to "On" or "Off". (See "POP-UP INFORMATION" on page 118.)
10	Touch to set IPD road guidance to "On" or "Off". (For information on IPD roads, see page 83.)

- To reset all setup items, touch "Default".

DRIVING SPEEDS

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

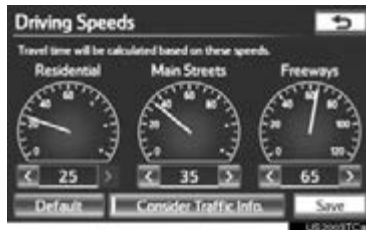
- 1 Press the "SETUP" button.
- 2 Touch "Navigation" on the "Setup" screen.
- 3 Touch "Detailed Navi. Settings" on the "Navigation Settings" screen.
- 4 Touch "Driving Speeds".



3 NAVIGATION SYSTEM

4. SETUP

- 5 Touch “<” or “>” to set the average vehicle speeds for “Residential”, “Main Streets” and “Freeways”.



- To set the default speeds, touch “**Default**”.
 - To use settings based on traffic information, touch “**Consider Traffic Info.**”.
- 6 After setting of the desired speeds is completed, touch “**Save**”.

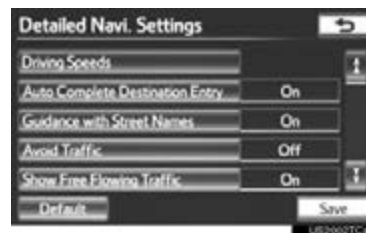
INFORMATION

- 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.
- Up to 99 hours 59 minutes can be displayed.

AUTO AVOID TRAFFIC

The guidance route automatically changes to another route to avoid heavy congestion when “**Avoid Traffic**” is turned on.

- 1 Press the “**SETUP**” button.
- 2 Touch “**Navigation**” on the “Setup” screen.
- 3 Touch “**Detailed Navi. Settings**” on the “Navigation Settings” screen.
- 4 Touch “**Avoid Traffic**”.



- 5 Touch “**On**” or “**Off**”.
 - 6 Touch “**Save**”.
- When congestion information about the guidance route has been received, a screen will appear to ask if it is desirable to reroute to avoid the congestion.
 - Touch “**Yes**” to reroute. Another route to avoid the congestion will appear.
 - Touch “**No**” if it is not desirable to reroute.

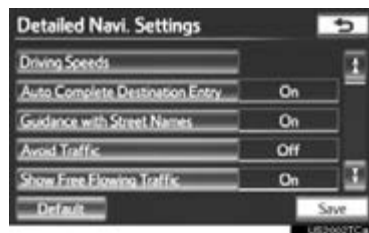
INFORMATION

- When the “**Traffic Information**” indicator is dimmed, “Avoid Traffic”, “Traffic Incident Warning” and “Show Free Flowing Traffic” will not operate. (See page 299.)

SHOW FREE FLOWING TRAFFIC

Free flowing traffic can be shown by an arrow when **“Show Free Flowing Traffic”** is turned on.

- 1 Press the **“SETUP”** button.
- 2 Touch **“Navigation”** on the “Setup” screen.
- 3 Touch **“Detailed Navi. Settings”** on the “Navigation Settings” screen.
- 4 Touch **“Show Free Flowing Traffic”**.



- 5 Touch **“On”** or **“Off”**.
- 6 Touch **“Save”**.

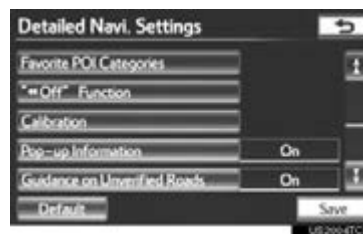
INFORMATION

- When the **“Traffic Information”** indicator is dimmed, **“Avoid Traffic”**, **“Traffic Incident Warning”** and **“Show Free Flowing Traffic”** will not operate. (See page 299.)

POI CATEGORY CHANGE (SELECT POI ICONS)

Select up to 6 POI icons to be displayed on the map screen.

- 1 Press the **“SETUP”** button.
- 2 Touch **“Navigation”** on the “Setup” screen.
- 3 Touch **“Detailed Navi. Settings”** on the “Navigation Settings” screen.
- 4 Touch **“Favorite POI Categories”**.



- 5 Touch the category to be changed.



3

NAVIGATION SYSTEM

4. 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.



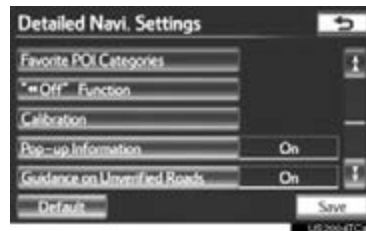
- The screen returns to the **“Favorite POI Categories”** screen.

8 Touch **“OK”**.

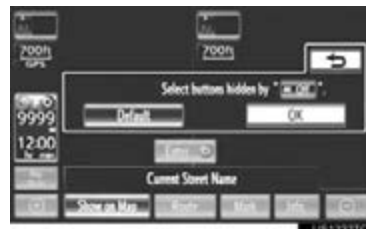
SCREEN LAYOUT FUNCTION (“◀◀ Off” Function)

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

- 1 Press the **“SETUP”** button.
- 2 Touch **“Navigation”** on the **“Setup”** screen.
- 3 Touch **“Detailed Navi. Settings”** on the **“Navigation Settings”** screen.
- 4 Touch **“◀◀ Off” Function**.



- 5 Touch the screen buttons to be turned off. The selected screen buttons will be dimmed.

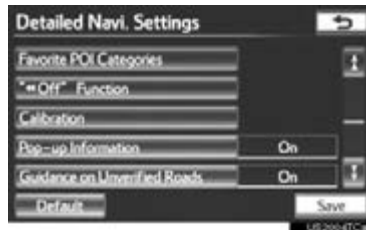


- To set the setting as a default, touch **“Default”**.
- 6 Touch **“OK”**.
 - The previous screen will be displayed.
 - 7 Touch **“Save”**.

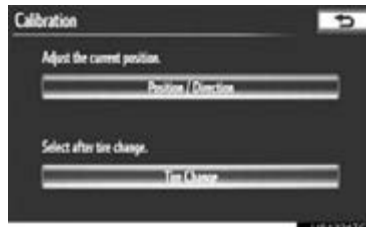
CURRENT POSITION/TIRE CHANGE CALIBRATION

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

- 1 Press the **“SETUP”** button.
- 2 Touch **“Navigation”** on the “Setup” screen.
- 3 Touch **“Detailed Navi. Settings”** on the “Navigation Settings” screen.
- 4 Touch **“Calibration”**.



- 5 Touch the desired screen button.

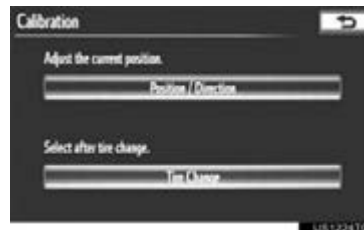


- For additional information on the accuracy of a current position, see “LIMITATIONS OF THE NAVIGATION SYSTEM” on page 126.

POSITION/DIRECTION CALIBRATION

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

- 1 Touch **“Position / Direction”**.



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





- 3 Touch **“OK”**.

3

NAVIGATION SYSTEM

4. SETUP

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



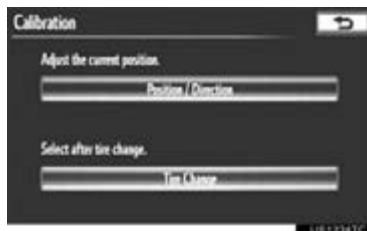
- 5 Touch “OK”.

- The map will be displayed.

■ TIRE CHANGE CALIBRATION

The tire change calibration function will be used when replacing the tires. This function will adjust miscalculation caused by the circumference difference between the old and new tires.

- 1 To perform the distance calibration procedure, touch “Tire Change”.



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

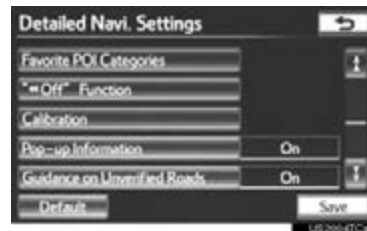
INFORMATION

- If this procedure is not performed when the tires are replaced, the current position mark may be incorrectly displayed.

POP-UP INFORMATION

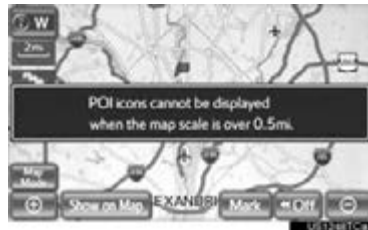
When “Pop-up information” is turned on, pop-up information will be displayed.

- 1 Press the “SETUP” button.
- 2 Touch “Navigation” on the “Setup” screen.
- 3 Touch “Detailed Navi. Settings” on the “Navigation Settings” screen.
- 4 Touch “Pop-up Information”.



- 5 Touch “On” or “Off”.
 - 6 Touch “Save”.
- When “Pop-up Information” is turned off, the following messages will not be displayed.

- ▶ This message appears when the map scale is over 0.5 miles (800 m).



- ▶ This message appears when the map is switched to dual map screen mode.



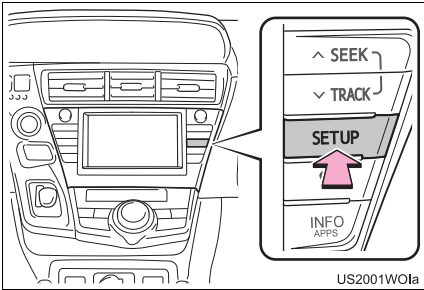
4. SETUP

2. VEHICLE SETTINGS

MAINTENANCE

When the navigation system is turned on, the “Maintenance Reminder” screen displays when it is time to replace a part or certain components. (See page 26.)

1 Press the “**SETUP**” button.



2 Touch “**Vehicle**”.



3 Touch “**Maintenance**”.



4 Touch the desired screen button.



- Setting maintenance information. (See page 120.)
- Setting dealer. (See page 122.)

MAINTENANCE INFORMATION SETTING

1 Press the “**SETUP**” button.

2 Touch “**Vehicle**” on the “Setup” screen.

3 Touch “**Maintenance**” on the “Vehicle Settings” screen.

4 Touch the desired screen button.



- When the vehicle needs to be serviced, the screen button color will change to orange.

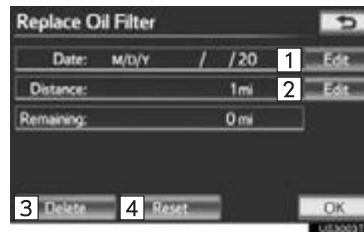
Screen button	Function
"Engine oil"	Replace engine oil
"Oil filter"	Replace engine oil filter
"Rotation"	Rotate tires
"Tires"	Replace tires
"Battery"	Replace 12-volt battery
"Brake pad"	Replace brake pads
"Wipers"	Replace wiper blades
"Coolant"	Replace coolant
"Brake oil"	Replace brake fluid
"Trans. fluid"	Replace transmission fluid
"Service"	Scheduled maintenance
"Air filter"	Replace air filter
"Personal"	New information items can be created separately from provided ones.
"Delete All"	Touch to cancel all conditions which have been input.
"Reset All"	Touch to reset the item which has satisfied a condition.

Screen button	Function
"Set Dealer"	Touch to register dealer information. (See "DEALER SETTING" on page 122.)
"Dealer Info."	Touch to edit dealer information. (See "DEALER SETTING" on page 122.)
"Reminder"	When this screen button is touched, the indicator is illuminated. The system is set to give maintenance information with the "Maintenance Reminder" screen. (See page 26.)

3

NAVIGATION SYSTEM

5 Input the conditions.



4. SETUP

No.	Function
1	Touch to input the next maintenance date.
2	Touch to input the driving distance until the next maintenance check.
3	Touch to cancel the date and distance conditions.
4	Touch to reset the date and distance conditions.

- 6** Touch **“OK”**.
- The screen then returns to the “Maintenance” screen.

INFORMATION

- For scheduled maintenance information, refer to “Scheduled Maintenance Guide” or “Owner’s Manual Supplement”.
- Depending on driving or road conditions, the actual date and distance maintenance should be performed may differ from the stored date and distance in the system.

DEALER SETTING

Dealer information can be registered in the system. With dealer information registered, route guidance to the dealer is available.

- Press the **“SETUP”** button.
- Touch **“Vehicle”** on the “Setup” screen.
- Touch **“Maintenance”** on the “Vehicle Settings” screen.
- Touch **“Set Dealer”**.

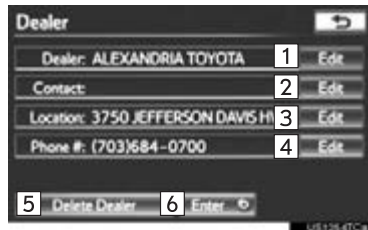


- If a dealer has not been registered, enter the location of a dealer in the same way as for a destination search. (See “DESTINATION SEARCH” on page 56.)



- When “Set Dealer” registration is finished, the “Dealer” screen is displayed.

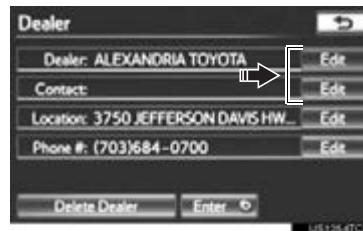
- 6 Touch **“Edit”** next to the item to be edited.



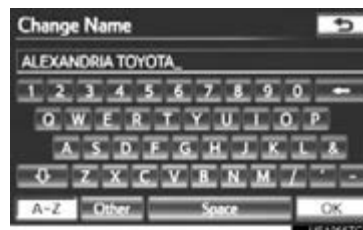
No.	Function
1	Touch to enter the name of a dealer. (See page 123.)
2	Touch to enter the name of a dealer member. (See page 123.)
3	Touch to set the location. (See page 124.)
4	Touch to enter the phone number. (See page 124.)
5	Touch to delete the dealer information displayed on the screen.
6	Touch to set the displayed dealer as a destination. (See “STARTING ROUTE GUIDANCE” on page 74.)

■ TO EDIT “Dealer” OR “Contact”

- 1 Touch **“Edit”** next to “Dealer” or “Contact”.



- 2 Enter the name using the alphanumeric keys.



- Up to 70 characters can be entered for dealer and 24 characters for contact.

- 3 Touch **“OK”**.

- The previous screen will be displayed.

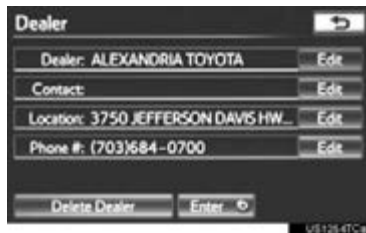
3

NAVIGATION SYSTEM

4. SETUP

■ TO EDIT "Location"

- 1 Touch "Edit" next to "Location".



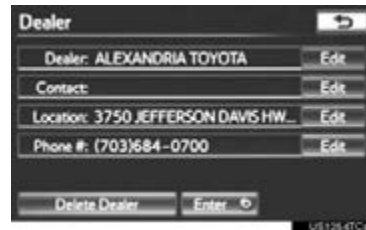
- 2 Touch one of the 8 directional screen buttons to move the cursor to the desired point on the map screen.



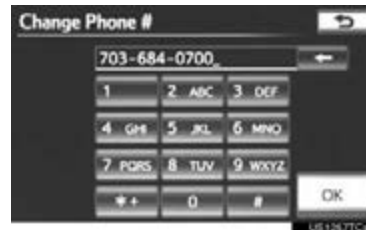
- 3 Touch "OK".
 - The previous screen will be displayed.

■ TO EDIT "Phone #" (PHONE NUMBER)

- 1 Touch "Edit" next to "Phone #".



- 2 Enter the number using number keys.



- 3 Touch "OK".
 - The previous screen will be displayed.

VEHICLE CUSTOMIZATION

Vehicle settings can be changed.

- 1 Press the **“SETUP”** button.
- 2 Touch **“Vehicle”** on the “Setup” screen.
- 3 Touch **“Vehicle Customization”**.



- 4 Touch the desired items to be set.
 - For a list of the settings that can be changed, refer to “Owner’s Manual”.
- 5 After changing the settings, touch **“Save”**. A message indicating that the settings are being saved will appear. Do not perform any other operations while this message is displayed.

CAUTION

- When performing the customization procedure, ensure that there is sufficient ventilation in the vehicle and surrounding area. If there is insufficient ventilation, exhaust gases may collect and enter the vehicle. Exhaust gases include harmful carbon monoxide (CO) and inhaling them may lead to death or a serious health hazard.

INFORMATION

- To avoid discharging the 12-volt battery, perform the customization procedure with the hybrid system operating.

3

NAVIGATION SYSTEM

5. GPS (GLOBAL POSITIONING SYSTEM)

1. LIMITATIONS OF THE NAVIGATION SYSTEM

This navigation system calculates the current position using satellite signals, various vehicle signals, map data, etc. However, an accurate position may not be shown depending on satellite conditions, 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 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 ft. (100 m) can and should be expected. Generally, position errors will be corrected within a few seconds.



When the vehicle is receiving signals from 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 screen. 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.

- Accurate current position may not be shown in the following cases:
 - When driving on a small angled Y-shaped road.
 - When driving on a winding road.
 - When driving on a slippery road such as in sand, gravel, snow, etc.
 - When driving on a long straight road.
 - When freeway and surface streets run in parallel.
 - After moving by ferry or vehicle carrier.
 - When a long route is searched during high speed driving.
 - When driving without setting the current position calibration correctly.
 - After repeating a change of direction by going forward and backward, or turning on a turntable in a 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 4 tires is not correct.
- If the vehicle cannot receive GPS signals, the current position can be adjusted manually. For information on setting the current position calibration, see page 117.
- Inappropriate route guidance may occur in the following cases:
 - When turning at an intersection off the designated route guidance.
 - If you set more than 1 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.
 - During high speed driving, it may take a long time for auto reroute to operate. In auto reroute, a detour route may be shown.
 - After auto reroute, the route may not be changed.
 - If an unnecessary U-turn is shown or announced.
 - If a location has multiple names and the system announces 1 or more of them.
 - When a route cannot 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 the navigation system may not be complete or may not be the latest version.
- After replacing a tire, implement the operation described in "TIRE CHANGE CALIBRATION". (See page 118.)

5. GPS (GLOBAL POSITIONING SYSTEM)

INFORMATION

- This navigation system uses tire turning data and is designed to work with factory-specified tires for the vehicle. Installing tires that are larger or smaller than the originally equipped diameter may cause inaccurate display of the current position. The tire pressure also affects the diameter of the tires, so make sure that the tire pressure of all 4 tires is correct.

4

PHONE



1 PHONE OPERATION		
1. QUICK REFERENCE	130	
2. PHONE (HANDS-FREE SYSTEM FOR CELLULAR PHONE)	132	
USING THE PHONE SWITCH	133	
USING THE STEERING SWITCHES	134	
ABOUT THE PHONEBOOK IN THIS SYSTEM	134	
WHEN SELLING OR DISPOSING OF THE VEHICLE	135	
3. REGISTER A Bluetooth® PHONE	137	
CONNECTING A Bluetooth® PHONE	138	
RECONNECTING THE Bluetooth® PHONE	140	
4. CALL ON THE Bluetooth® PHONE	141	
BY DIAL	141	
BY PHONEBOOK	141	
BY SPEED DIAL	143	
BY CALL HISTORY	143	
BY VOICE RECOGNITION	145	
CALLING USING AN SMS/MMS MESSAGE	147	
BY POI* CALL	147	
5. RECEIVE ON THE Bluetooth® PHONE	148	
6. TALK ON THE Bluetooth® PHONE	149	
WHEN YOU SELECT "0-9"	149	
INCOMING CALL WAITING	151	
7. Bluetooth® PHONE MESSAGE FUNCTION	152	
CHECKING MESSAGES	152	
REPLYING (QUICK REPLY)	153	
NEW MESSAGE NOTIFICATION	154	
2 SETUP		
1. PHONE SETTINGS	155	
PHONE SOUND SETTINGS	155	
PHONEBOOK	157	
MESSAGE SETTINGS	170	
PHONE DISPLAY SETTINGS	174	
2. Bluetooth® SETTINGS	177	
REGISTERED DEVICES	177	
SELECTING A Bluetooth® PHONE	181	
SELECTING PORTABLE PLAYER	183	
DETAILED Bluetooth® SETTINGS	184	

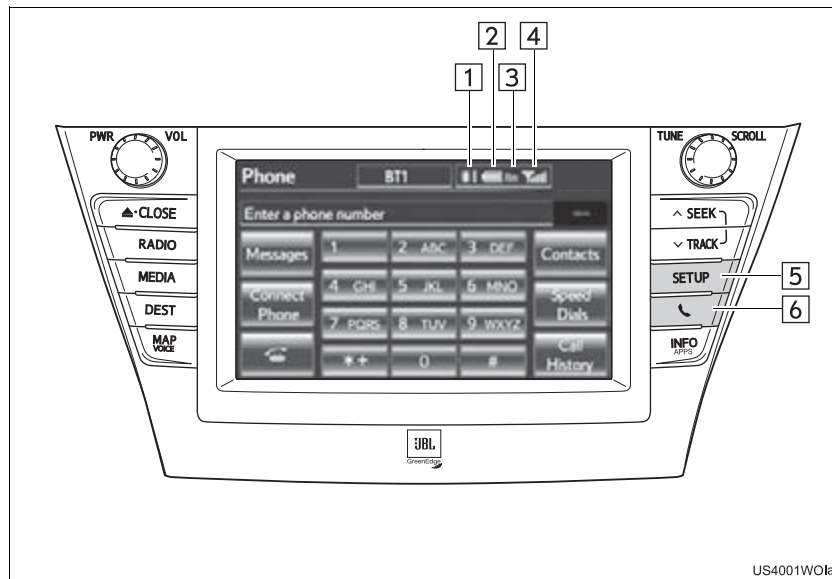
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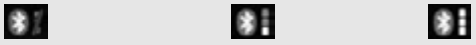

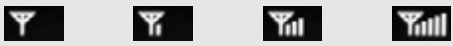

*: Point of Interest

1. PHONE OPERATION

1. QUICK REFERENCE

Bluetooth® phones can be operated via the navigation system's screen. To display the hands-free operation screen, press the  button or the  switch on the steering wheel.



No.	Name	Function
1	The condition of Bluetooth® connection	 <p>No connection ← → Good</p> <p>An antenna for the Bluetooth® connection is built in the instrument panel. The condition of the Bluetooth® connection may deteriorate and the system may not function when a Bluetooth® phone is used in the following conditions and/or places:</p> <ul style="list-style-type: none"> • The cellular phone is obstructed by certain objects (such as when it is behind the seat or in the glove box and console box). • The cellular phone touches or is covered with metal materials. <p>Leave the Bluetooth® phone in a place where the condition of the Bluetooth® connection is good.</p> <p>When the cellular phone is not connected, “No Connect” is displayed.</p>
2	The amount of battery charge left	 <p>Empty ← → Full</p> <p>This is not displayed when the Bluetooth® is not connected. The amount displayed does not always correspond with the amount displayed on the cellular phone. The amount of battery charge left may not be displayed depending on the type of phone you have. This system does not have a charging function.</p>
3	The receiving area	<p>“Rm” is displayed when receiving in a roaming area. The receiving area may not be displayed depending on the type of phone you have.</p>
4	The level of reception	 <p>Poor ← → Excellent</p> <p>The level of reception does not always correspond with the level displayed on the cellular phone. The level of reception may not be displayed depending on the phone you have.</p> <p>When the cellular phone is out of the service area or in a place inaccessible by radio waves, “No Service” is displayed.</p>
5	“SETUP” button	Press to display the “Setup” screen. Touching “ Phone ” or “ Bluetooth* ” on the “Setup” screen displays the hands-free setup screen.
6	 button	Press to display the hands-free operation screen.

4
PHONE

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

1. PHONE OPERATION

2. PHONE (HANDS-FREE SYSTEM FOR CELLULAR PHONE)

The hands-free system enables calls to be made and received without having to take your hands off the steering wheel.

This system supports Bluetooth®. Bluetooth® is a wireless data system that enables cellular phones to be used without being connected by a cable or placed in a cradle.

The operating procedure of the phone is explained here.

- For registering and setting of the phone, see "PHONE SETTINGS" on page 155 and "Bluetooth® SETTINGS" on page 177.

CAUTION

- While driving, do not use a cellular phone or connect the Bluetooth® phone.
- Your audio unit is fitted with Bluetooth® antennas. People with implanted pacemakers or cardiac defibrillators should maintain a reasonable distance between themselves and the Bluetooth® antennas. The radio waves may affect the operation of such devices.
- Before using Bluetooth® devices, users of any electrical medical device other than implanted pacemakers and implanted cardiac defibrillators should consult the manufacturer of the device for information about its operation under the influence of radio waves. Radio waves could have unexpected effects on the operation of such medical devices.

NOTICE

- Do not leave your cellular phone in the vehicle. The temperature inside may rise to a level that could damage the phone.

INFORMATION

- If your cellular phone does not support Bluetooth®, this system cannot function.
- 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.
- 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.
- This system supports the following services:
 - Bluetooth® Specification
Ver.1.1 or higher
(Recommended: Ver.2.1 + 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 or higher
PBAP (Phone Book Access Profile)
Ver.1.0 or higher
MAP (Message Access Profile)
Ver.1.0 or higher
SPP (Serial Port Profile)
Ver.1.1 or higher*

*: This profile is necessary when using Entune. (See "ENTUNE SERVICE" on page 304.)

INFORMATION

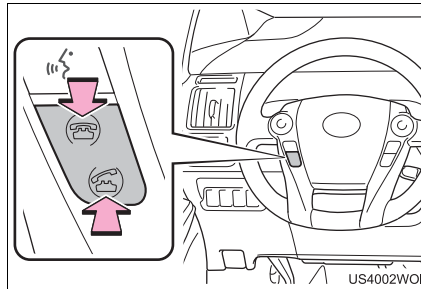
- If your cellular phone does not support HFP, registering the Bluetooth® phone or using OPP, PBAP, MAP or SPP profiles individually will not be possible.
- If the connected Bluetooth® phone version is older than recommended or incompatible, this function may not be used.
- Refer to <http://www.Toyota.com/Bluetooth/> to find approved Bluetooth® phones for this system.



Bluetooth is a registered trademark of Bluetooth SIG, Inc.

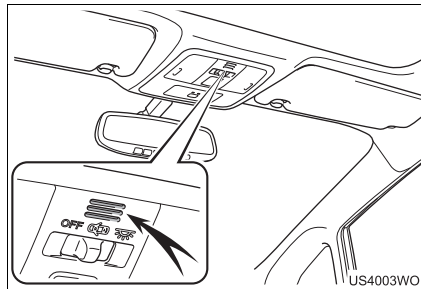
USING THE PHONE SWITCH

By pressing the phone switch, a call can be received or ended without taking your hands off the steering wheel.

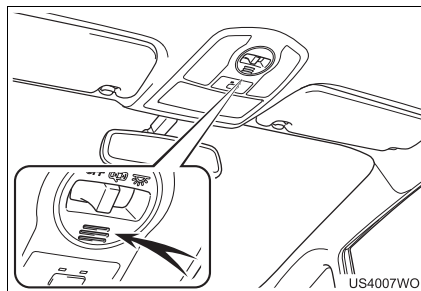


- The microphone can be used when talking on the phone.

► Type A



► Type B

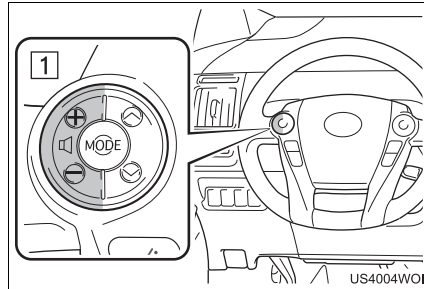


1. PHONE OPERATION

INFORMATION

- The other party's voice will be heard from the front speakers. The audio/video system will be muted during phone calls or when hands-free voice commands are used.
- Talk alternately with the other party on the phone. If both parties speak at the same time, the other party may not hear what has been said. (This is not a malfunction.)
- Keep call volume down. Otherwise, the other party's voice may be audible outside the vehicle and voice echo may increase. When talking on the phone, speak clearly towards the microphone.
- The other party may not hear you clearly when:
 - Driving on an unpaved road. (Making excessive traffic noise.)
 - Driving at high speeds.
 - The roof or windows are open.
 - The air conditioning vents are pointed towards the microphone.
 - The sound of the air-conditioning fan is loud.
 - There is a negative effect on sound quality due to the phone and/or network being used.

USING THE STEERING SWITCHES



1 Volume control switch

- Press the “+” side to increase the volume.
- Press the “-” side to decrease the volume.

ABOUT THE PHONEBOOK IN THIS SYSTEM

- The following data is stored for every registered phone. When another phone is connected, the following registered data cannot be read:
 - Phonebook data
 - Call history data
 - Speed dial data
 - Image data
 - All phone settings
 - Message settings

INFORMATION

- When a phone's registration is deleted, the above-mentioned data is also deleted.

**WHEN SELLING OR
DISPOSING OF THE VEHICLE**

A lot of personal data is registered when the hands-free system is used. When selling or disposing of the vehicle, initialize the data. (See “DELETING PERSONAL DATA” on page 51.)

- The following data in the system can be initialized:
 - Phonebook data
 - Call history data
 - Speed dial data
 - Image data
 - All phone settings
 - Message settings

INFORMATION

- Once initialized, the data and settings will be erased. Pay much attention when initializing the data.

▶ U.S.A.

● **FCC ID : HYQDNNS059**
Type : DNNS059
IC : 1551A-DNNS059 Canada 310

- This device complies with part 15 of the FCC Rules. 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

- **FCC WARNING:** 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 environment 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 ankles).
- **Co-location:** This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

4

PHONE

1. PHONE OPERATION

► Canada

CAUTION

● NOTE

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

L'utilisation de ce dispositif est autorisée seulement aux deux conditions suivantes : (1) il ne doit pas produire de brouillage, et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

- This equipment complies with IC radiation exposure limits set forth for uncontrolled environment and meets RSS-102 of the IC radio frequency (RF) Exposure rules. 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 ankles).

Cet équipement se conforme aux limites d'exposition aux radiations établies par Industrie Canada pour un environnement non contrôlé ainsi qu'aux directives d'exposition aux fréquences radioélectriques (RF) émises par Industrie Canada dans la norme CNR-102. Cet équipement émet un niveau d'énergie RF faible à un point tel qu'il se conforme sans devoir effectuer d'évaluation d'exposition maximum admissible (MPE). Lorsque l'équipement est utilisé, il est toutefois souhaitable de laisser au moins 20 cm entre l'antenne et le corps (à l'exception des extrémités : mains, poignets, pieds et chevilles).

CAUTION

- Co-location: This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.
Co-implantation: cet émetteur ne doit pas être co-implanté ou actionné en même temps qu'aucune autre antenne ou émetteur.



1. PHONE OPERATION

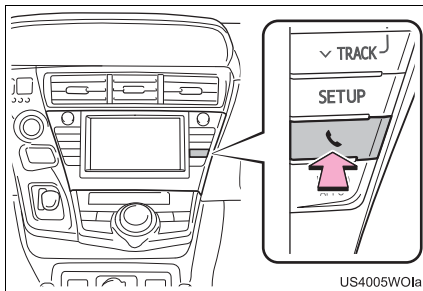
3. REGISTER A Bluetooth® PHONE

To use the hands-free system, it is necessary to register a phone with the system. Once the phone has been registered, it is possible to make a hands-free call.

If a Bluetooth® phone has not been registered yet, it is necessary to register it first according to the following procedure. A Bluetooth® phone cannot be registered while driving.

- See “REGISTERING A Bluetooth® DEVICE” on page 178 of additional registration when registering.

- 1 Press the  button or the  switch on the steering wheel.



- 2 Touch “Yes” to register a phone.



- If 5 Bluetooth® devices have already been registered, a registered device needs to be deleted. See “When 5 Bluetooth® devices have already been registered” on page 138.

- 3 When this screen is displayed, operate the Bluetooth® device.



- Search for the navigation system displayed on the system's screen using your Bluetooth® device, and register the Bluetooth® device.

For details about operating the Bluetooth® device, see the manual that comes with it.

- A passcode is not required for SSP (Secure Simple Pairing) compatible Bluetooth® phones. Depending on the type of Bluetooth® phone being connected, a message confirming registration may be displayed on the Bluetooth® phone's screen. Respond and operate the Bluetooth® phone according to the confirmation message.

- To cancel the registration, touch “Cancel”.

- If the Bluetooth® phone to be registered has a Bluetooth® audio function, this can be registered at the same time.

- 4 This screen will be displayed when registration is complete.



- When using the same phone, it is not necessary to register it again.

4

PHONE

- ▶ 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.
- To disconnect the Bluetooth® device, touch **“Yes”**.
- ▶ When 5 Bluetooth® devices have already been registered
 - 1 When 5 Bluetooth® devices have already been registered, a registered device needs to be deleted. Touch **“Yes”** to delete 1 or more.
 - 2 Touch the device to be deleted, then touch **“Remove”**.
 - 3 Touch **“Yes”**.

- ▶ If the Bluetooth® phone has a Bluetooth® audio function



- When the Bluetooth® phone to be registered has a Bluetooth® audio function, this audio function will be registered automatically at the same time and this screen may be displayed. If this screen is displayed, touch **“Yes”** to connect the audio function or touch **“No”** to cancel the connection.

CONNECTING A Bluetooth® PHONE

AUTOMATICALLY

When a phone is registered, auto connection is turned on. Always set it to this mode and leave the Bluetooth® phone in a location where connection can be established.



- For automatic connection, see **“CHANGING “Bluetooth* Power”** on page 185.
- *: Bluetooth is a registered trademark of Bluetooth SIG, Inc.



- When the “POWER” switch is in ACCESSORY or ON mode, the system searches for a nearby registered cellular phone.
- The system will connect with the phone that was last connected, if it is nearby. When “Display Phone Status” is set to “On”, the connection status is displayed. (See “Bluetooth® DEVICE CONNECTION STATUS DISPLAY SETTINGS” on page 187.)
- 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 if the phone connection is carried out during Bluetooth® device playback. Depending on the type of Bluetooth® phone being connected, it may be necessary to perform additional steps on the phone.

MANUALLY

When the auto connection has failed or “Bluetooth* Power” is turned off, it is necessary to connect Bluetooth® manually.

- 1 Press the button or the switch on the steering wheel.
- 2 Touch “Connect Phone”.



- 3 Touch the screen button corresponding to the desired phone connection.



- When the cellular phone’s device name has not been able to be obtained, “Device 1” to “Device 5” will be displayed in the order the phones were registered.

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

4
PHONE

- 4 This screen is displayed.



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



- Now you can use the Bluetooth® phone.
- ▶ When a phone is connected while Bluetooth® audio is playing



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

RECONNECTING THE Bluetooth® PHONE

If a Bluetooth® phone is disconnected due to poor reception from the Bluetooth® network when the "POWER" switch is in ACCESSORY or ON mode, the system automatically reconnects the Bluetooth® phone. When "**Display Phone Status**" is set to "**On**", the connection status is displayed.

- If a Bluetooth® phone is disconnected on purpose, such as turning it off, this does not happen. Reconnect the Bluetooth® phone manually.

1. PHONE OPERATION



4. CALL ON THE Bluetooth® PHONE

After a Bluetooth® phone has been registered, a call can be made using the hands-free system. There are 7 methods by which a call can be made. These are described below.




BY DIAL

A call can be made by inputting the phone number.

This cannot be operated while driving.

- 1 Press the  button or the  switch on the steering wheel.
- 2 Touch the desired key to input the phone number.



- Each time  is touched, an input digit is deleted.
- 3 Touch  or press the  switch on the steering wheel.
- Depending on the type of Bluetooth® phone being connected, it may be necessary to perform additional steps on the phone.

BY PHONEBOOK

Calls can be made by using the phonebook data which is transferred from the registered cellular phone.

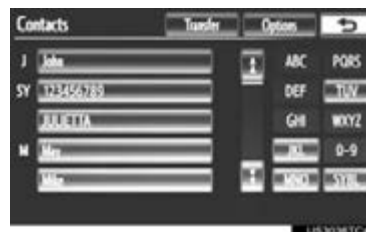
The phonebook changes depending on the phone connected. Up to 1000 contacts (maximum of 3 numbers per contact) can be registered in each phonebook.

This cannot be operated while driving.

- 1 Touch “Contacts”.



- 2 Touch the desired data from the list.





4

PHONE

- 3 Touch the desired number from the list.



- 4 Touch  or press the  switch on the steering wheel.

WHEN THE PHONEBOOK IS EMPTY

- 1 Touch “**Contacts**”.



- 2 Touch “**Yes**” or “**Transfer**” to automatically transfer the phonebook from the connected phone.
- Touch “**Manual**” to transfer the phonebook manually. (See “TRANSFERRING A PHONE NUMBER” on page 158.)
 - Touch “**No**” or “**Cancel**” to cancel transferring.
 - If your cellular phone is neither PBAP nor OPP compatible, the phonebook cannot be transferred.

- ▶ PBAP compatible models



- ▶ PBAP incompatible but OPP compatible models



- 3 Transfer the phonebook data to the system using the Bluetooth® phone.
- Depending on the type of cellular phone, OBEX authentication may be required when transferring phonebook data. Enter “1234” into the Bluetooth® phone.



- This screen appears while transferring. To cancel this function, touch “**Cancel**”.

INFORMATION

- Depending on the type of Bluetooth® phone:
 - It may be necessary to perform additional steps on the phone when transferring phonebook data.
 - The registered image on the phonebook may not appear when phonebook data is transferred.

- 4 When the data transfer from a PBAP incompatible but OPP compatible model is complete, “Done” will appear on the screen. Touch “Done”.



BY SPEED DIAL

Calls can be made using registered phone numbers which can be selected from a phonebook. (See “REGISTERING THE SPEED DIAL” on page 166 for registering the speed dial.)
This can be operated while driving.

- 1 Touch “Speed Dials”.



- 2 Touch the desired number to call.



- The list to be displayed can be changed by touching the “Speed Dial 1”, “Speed Dial 2” or “Speed Dial 3” tab.

BY CALL HISTORY

CALLS CAN BE MADE BY CALL HISTORY WHICH HAS 4 FUNCTIONS

All: all calls (missed, incoming or outgoing)
Up to 25 call history items can be selected from the “All” tab while driving.
Missed: calls that were missed
Incoming: calls that were received
Outgoing: calls that were made

4

PHONE



- 1 Touch "Call History".

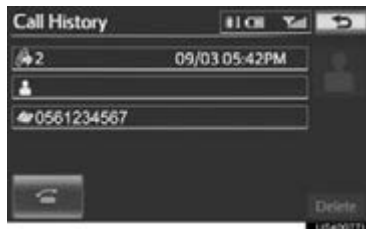


- 2 Touch the desired data from the list.






- The list to be displayed can be changed by touching the "All", "Missed", "Incoming" or "Outgoing" tab.


- 3 Touch  or press the  switch on the steering wheel.





CALLS CAN BE MADE USING THE LATEST CALL HISTORY ITEM

- 1 Press the  button or the  switch on the steering wheel to display the "Phone" screen.

- 2 Press the  switch on the steering wheel to display the "Call History" screen.

- 3 Press the  switch on the steering wheel to select the latest history item.

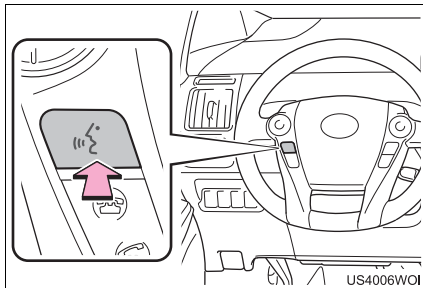
- 4 Touch  or press the  switch on the steering wheel to call the latest history item.

- When making a call by phonebook, the name (if registered) is displayed.
- When making a call to the same number continuously, only the most recent call is listed in call history.
- When a phone number registered in the phonebook is received, the name and the number are displayed.
- Number-withheld calls are also memorized in the system.
- International phone calls may not be made depending on the type of cellular phone you have.

BY VOICE RECOGNITION

Calls can be made by giving a voice command. (For the operation and command of voice recognition, see "VOICE COMMAND SYSTEM" on page 268.)

This can be operated while driving.



VOICE COMMAND EXAMPLE: CALL NAME

- 1 Press the talk switch.
 - "Call <name> <type>" is displayed in the "Shortcut Menu" screen.
 - When "Call <name> <type>" on the "Shortcut Menu" screen is dimmed, the phonebook's voice command recognition cannot be used. Check the Bluetooth® connection and if the contacts have been transferred to the navigation system.

- 2 Say the name, or the name and type of phone, of a registered contact.

- In the same manner as it is displayed on the screen, "Call <name> <type>", after saying "**Call**" say the name, or the name and type of phone, of a contact. For example: "**Call**", "**John Smith**" or "**Call**", "**Mary Davis**", "**Mobile**"
- There are 4 types of phones: Home, Mobile, Office and Other.
- Short or abbreviated names in the phonebook may not be recognized. Change names in the phonebook to full names.
- Sometimes a voice recognition result confirmation screen will be displayed. After confirming the result, say "**Yes**" or "**No**".
- When the system recognizes multiple names from the phonebook, a name candidate list will be displayed on the screen. If the desired name is not displayed on the top of the screen, say the number of the name from the candidate list (number 1 and number 2) to select a name from the candidate list.
- When a contact has multiple phone numbers registered in the phonebook, a candidate list will be displayed. If the desired phone number is not displayed on the top of the screen, say the number of the desired phone number from the candidate list (number 1 and number 2) to select a phone number from the candidate list.

- 3 Say "**Dial**" to call the phone number.



**VOICE COMMAND EXAMPLE:
DIAL NUMBER**


- 1** Press the talk switch.
 - “Dial <number>” is displayed in the “Shortcut Menu” screen.
 - When “Dial <number>” on the “Shortcut Menu” screen is dimmed, the phone number voice recognition cannot be used. Check the Bluetooth® phone connection.
- 2** Say the phone number.
 - In the same manner as it is displayed on the screen, “Dial <number>”, after saying “**Dial**” say the phone number.
 - Say the phone number one digit at a time. For example, if the phone number is 2345678:
Say “**two three four five six seven eight**”
Do not say “**twenty three forty five sixty seven eight**”
 - The system can recognize the following types of phone numbers:
 - 3 digit numbers (911, 411, 611)
 - 7 digit numbers (Local phone numbers)
 - 10 digit numbers (Area code + Local phone number)
 - 11 digit phone numbers (1 + Area code + Local phone number)
 - As the system cannot recognize additional numbers, say the complete number without stopping.
 - When the system recognizes multiple phone numbers, a phone number candidate list will be displayed on the screen. If the desired phone number is not displayed on the top of the screen, say the number of the desired phone number from the candidate list (number 1 and number 2) to select a phone number from the candidate list.
- 3** Say “**Dial**” to call the phone number.

INTERNATIONAL CALL

To dial a phone number that is not a 3, 7, 10 or 11 digit number, for example an international number, use “International Call”.

- 1** Go to the “Main Menu” screen by pressing the talk switch on the steering wheel and saying “**Main menu**” or touch “**Main Menu**”.
 - 2** Say “**Use a phone**”.
 - 3** Say “**International call**”.
- Up to 24 digits can be recognized when using the international call function. The number can also be divided into multiple groups and recognized.

Calling without the voice recognition:

After the desired phone number is displayed, a call can also be made by pressing the  switch on the steering wheel.

Canceling the voice recognition: The voice recognition will be canceled when either of the following is performed:

- Press and hold the talk switch.
- Touch “**Cancel**”.



CALLING USING AN SMS/MMS MESSAGE

Calls can be made to an SMS (Short Message Service)/MMS (Multimedia Messaging Service) message sender's phone number.


This can be operated while driving.

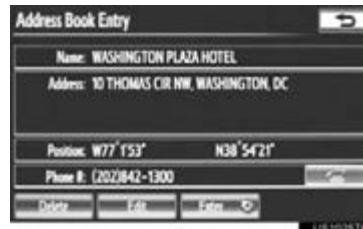
- 1 Touch **"Messages"**.



- When **"Message Transfer"** is set to **"Off"**, a confirmation screen will be displayed. Touch **"Yes"**. (See page 170.)
- 2 Touch the **"SMS/MMS"** tab and then touch the desired received message from the list.
 - The tab display may vary depending on the type of cellular phone.
 - 3 Touch  or press the  switch on the steering wheel.

BY POI CALL

A call can be made by touching  when it is displayed on the screen from the navigation system. (See **"TO SEE INFORMATION ABOUT THE ICON WHERE THE CURSOR IS SET"** on page 35 and **"VIEW DETAILED FUEL PRICE INFORMATION"** on page 292.)





4

PHONE



1. PHONE OPERATION

5. RECEIVE ON THE Bluetooth® PHONE

When a call is received, this screen is displayed with a sound.

- 1 Touch  or press the  switch on the steering wheel to talk on the phone.



To refuse to receive the call: Touch  or press the  switch on the steering wheel.

To adjust the volume of a received call: Touch “-” or “+”, turn the “PWR VOL” knob, or use the volume switch on the steering wheel.

INFORMATION

- During international phone calls, the other party's name or number may not be displayed correctly depending on the type of cellular phone you have.
- The incoming call display mode can be set. (See “INCOMING CALL DISPLAY” on page 175.)

1. PHONE OPERATION

6. TALK ON THE Bluetooth® PHONE

While talking on the phone, this screen is displayed. The operations outlined below can be performed on this screen.



To adjust the volume of the other party's voice: Touch “-” or “+”, turn the “PWR VOL” knob, or use the volume switch on the steering wheel.

To hang up the phone: Touch  or press the  switch on the steering wheel.

To mute your voice: Touch “Mute”.

To input a key: Touch “0-9”.

To transfer the call: Touch “Handset Mode” to change from hands-free call to cellular phone call. Touch “Handsfree Mode” to change from cellular phone call to hands-free call.

INFORMATION

- Changing from hands-free call to cellular phone call is not possible while driving.
- When cellular phone call is changed to hands-free call, the hands-free screen will be displayed and its functions can be operated on the screen.
- Changing between cellular phone call and hands-free call can be performed by operating the cellular phone directly.
- Transferring methods and operations will be different depending on the type of cellular phone you have.
- For the operation of the cellular phone, see the manual that comes with it.


WHEN YOU SELECT “0-9”

INPUTTING A KEY

Inputting a key is not possible while driving.

- 1 Touch the desired number to input the key.



To hang up the phone: Touch  or press the  switch on the steering wheel.

4

PHONE

TONE SIGNAL

If a continuous tone signal is registered in a phonebook, this screen appears. (If not registered, “Send” and “Clear” are not displayed.) This can be operated while driving.

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



- When “Clear” is touched, this function is finished and the normal tone screen appears.

To hang up the phone: Touch  or press the  switch on the steering wheel.

INFORMATION

- The continuous tone signal is the marked sign (p or w) and the number that follows the phone number. (e.g. 056133w0123p#1*)
- When the “p” pause tone is used, after waiting 2 seconds the tone data up until the next pause tone will be automatically sent. When the “w” pause tone is used, the tone data up until the next pause tone will be automatically sent after user operation.
- This operation can be done when it is desirable to operate an answering machine or use a telephone service in a bank for example. The phone number and the code number in the phonebook can be registered.



BY VOICE RECOGNITION

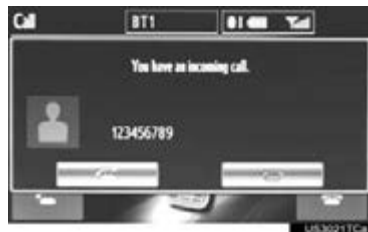
“Send Tones” can be operated by giving a command during a call.



- The operating procedure is similar to other voice recognition operations. (For the operation of voice recognition, see “VOICE COMMAND SYSTEM” on page 268.)

INCOMING CALL WAITING



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

- 1 Touch  or press the  switch on the steering wheel to start talking with the other party.



- Touch  or press the  switch on the steering wheel to refuse the call.



- Each time  is touched or the  switch on the steering wheel is pressed during an interrupted call, the party who is on hold will be switched.

INFORMATION



- If your cellular phone does not support HFP Ver. 1.5, this function cannot be used.
- The ring tone that has been set in the "Phone Sound Settings" screen sounds when there is an incoming call. Depending on the type of Bluetooth® phone, both the navigation system and Bluetooth® phone may sound simultaneously when there is an incoming call. (See "RING TONE SETTING" on page 156.)

1. PHONE OPERATION

7. Bluetooth® PHONE MESSAGE FUNCTION

Received messages can be forwarded from the connected Bluetooth® phone, enabling checking and replying using the navigation system (Quick reply).

CHECKING MESSAGES

1 Press the  button or the  switch on the steering wheel.

2 Touch “Messages”.





- Depending on the type of Bluetooth® phone being connected, it may be necessary to perform additional steps on the phone.
 - When “Message Transfer” is set to “Off”, a confirmation screen will be displayed. Touch “Yes”. (See page 170.)
- 3 Touch the screen button corresponding to the desired message.
- Messages are displayed in the appropriate connected Bluetooth® phone’s registered mail address folder. Touch the tab of the desired folder to be displayed.

4 Messages can be checked.



- Touching “Previous” or “Next” displays the previous or next message.
 - Only received messages on the connected Bluetooth® phone can be displayed.
 - The text of the message is not displayed while driving.
- 5 Touch “Play” to start reading out of the message. Touch “Stop” to stop the function.
- Touch “-” or “+”, turn the “PWR VOL” knob, or use the volume switch on the steering wheel to adjust the message read out volume.
 - The message read out function is available even while driving.

- When the received message is an e-mail and “**Update Message Read Status on Phone**” is set to “**On**”, “**Mark as Unread**” or “**Mark as Read**” can be selected. Touch “**Mark as Unread**” to mark mails that have been read on the Bluetooth® phone as unread. Conversely, touch “**Mark as Read**” to mark mails that have not been read on the Bluetooth® phone as read. (See “**MES-SAGE SETTINGS**” on page 170.)
- For SMS/MMS, touching  or pressing the  switch on the steering wheel calls the sender. (See page 147.)
- Touch “**Reply**” to reply to the message. (See page 153.)

REPLYING (QUICK REPLY)

1 Touch “Reply”.



2 Touch the screen button corresponding to the desired message.



3 Touch “Send”.

- While the message is being sent, a sending message screen is displayed.
- 4 This screen will be displayed if message delivery fails.



- Touch “**Retry**” to attempt to send the message again or touch “**Cancel**” to cancel.

4

PHONE

EDITING REPLY MESSAGES

- 1 Reply messages can be edited while the vehicle is parked. Touch **“Edit”**.




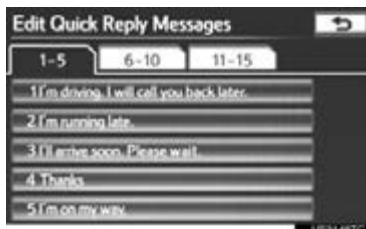
- 2 Touch the screen button corresponding to the desired message.



- 3 Touch **“OK”** when editing is completed.



- 4 Touch .






NEW MESSAGE NOTIFICATION

If **“New Message Pop-up”** and **“New Message Voice Notification”** are set to **“On”**, a notification appears on the screen and a voice notification will be heard when a new message arrives. (See **“MESSAGE SETTINGS”** on page 170.)

- 1 Touch **“Read”** to check the message.

- The **“Messages”** screen will be displayed.
- When **“Automatic Message Readout”** is set to **“On”**, the message will be automatically read out. (See **“MESSAGE SETTINGS”** on page 170.)

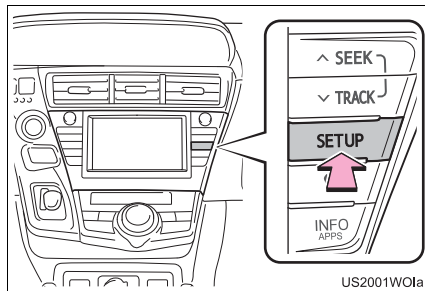
- For SMS/MMS, touching  or pressing the  switch on the steering wheel calls the sender. (See page 147.)
- To check the message later, touch **“Ignore”** or .

2. SETUP

1. PHONE SETTINGS

The phonebook can be edited. Volume, display and message settings can also be changed.

- 1 Press the **“SETUP”** button.



- 2 Touch **“Phone”**.



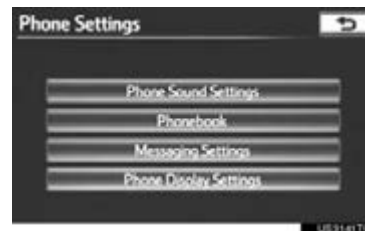
- 3 Perform each setting according to the procedures outlined on the following pages.



PHONE SOUND SETTINGS

The call and ring tone volume can be adjusted. A ring tone can be selected.

- 1 Touch **“Phone Sound Settings”**.



- 2 Perform each setting according to the procedures outlined on the following pages.



- 3 When all settings are completed, touch **“Save”**.

INFORMATION

- The system will automatically increase the volume when the speed exceeds 50 mph (80 km/h).

4

PHONE

2. SETUP

CALL VOLUME SETTING

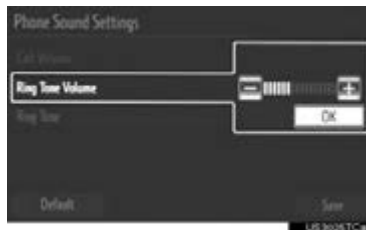
- 1 Touch **“Call Volume”** on the “Phone Sound Settings” screen.
- 2 Touch **“-”** or **“+”** to adjust the call volume.



- 3 Touch **“OK”**.

RING TONE VOLUME SETTING

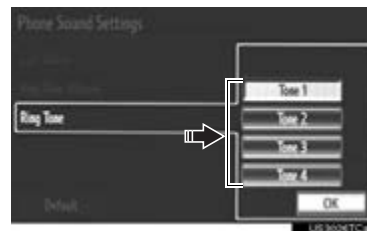
- 1 Touch **“Ring Tone Volume”** on the “Phone Sound Settings” screen.
- 2 Touch **“-”** or **“+”** to adjust the ring tone volume.



- 3 Touch **“OK”**.

RING TONE SETTING

- 1 Touch **“Ring Tone”** on the “Phone Sound Settings” screen.
- 2 Touch the screen button corresponding to the desired ring tone.



- Ring tones can be heard by touching the screen buttons.
- 3 Touch **“OK”**.

INITIALIZING THE SETTINGS

The settings can be initialized.

- 1 Touch **“Default”** on the “Phone Sound Settings” screen.
- 2 Touch **“Yes”**.

PHONEBOOK

The call history can be deleted and phonebook and speed dial settings can be changed.

- 1 Press the **“SETUP”** button.
- 2 Touch **“Phone”** on the “Setup” screen.
- 3 Touch **“Phonebook”**.



- 4 Perform each setting according to the procedures outlined on the following pages.



INFORMATION

- Phonebook data is managed independently for every registered phone. When one phone is connected, another phone's registered data cannot be read.

SETTING THE PHONEBOOK

The phonebook can be transferred from a Bluetooth® phone to the system. The phonebook also can be added, edited and deleted.

- 1 Press the **“SETUP”** button.
- 2 Touch **“Phone”** on the “Setup” screen.
- 3 Touch **“Phonebook”** on the “Phone Settings” screen.
- 4 Touch **“Manage Contacts”**.



- 5 Perform each setting according to the procedures outlined on the following pages.





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PHONE

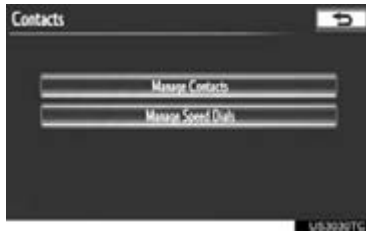
2. SETUP

■ THE “Contacts” SCREEN CAN ALSO BE DISPLAYED

- 1 Press the  button or the  switch on the steering wheel.
- 2 Touch “Contacts” on the “Phone” screen.
- 3 Touch “Options”.



- 4 Touch “Manage Contacts”.



■ TRANSFERRING A PHONE NUMBER

The phone numbers in a Bluetooth® phone can be transferred to the system. The system can manage up to 5 phonebooks. Up to 1000 contacts (maximum of 3 numbers per contact) can be registered in each phonebook.

Operation methods differ between PBAP compatible and PBAP incompatible but OPP compatible Bluetooth® phones.

If your cellular phone is neither PBAP nor OPP compatible, the phonebook cannot be transferred.

- ▶ For PBAP compatible Bluetooth® phones

- 1 Touch “Transfer Contacts”.



- 2 Touch “Update Contacts”.



3 Transfer the phonebook data to the system using a Bluetooth® phone.

- This operation may be unnecessary depending on a cellular phone model.
- Depending on the type of cellular phone, OBEX authentication may be required when transferring phonebook data. Enter “1234” into the Bluetooth® phone.



- This screen appears while transferring. To cancel this function, touch “**Cancel**”.
- If another Bluetooth® device is connected when transferring phonebook data, depending on the phone, the connected Bluetooth® device may need to be disconnected.

▶ PBAP compatible models automatic data transfer setting

When a PBAP compatible phone is connected, the phone's phonebook data can be automatically transferred.

1 Touch “**Transfer Contacts**”.



- 2** Touch “**Automatically Download Contacts**” to transfer the phonebook from a connected cellular phone. Touch “**Automatically Download Call History**” to transfer the call history from a connected cellular phone.



3 Touch “**On**”.



4 Touch “**Save**”.

4

PHONE

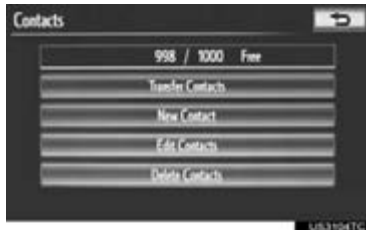
2. SETUP

INFORMATION

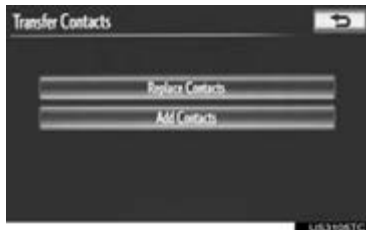
- Depending on the type of Bluetooth® phone, the registered image on the phonebook may not appear when phonebook data is transferred.

▶ For PBAP incompatible but OPP compatible Bluetooth® phones

1 Touch “**Transfer Contacts**”.



2 Touch “**Replace Contacts**” or “**Add Contacts**”.



- If the phonebook contains phonebook data, this screen is displayed.

3 Transfer the phonebook data to the system using a Bluetooth® phone.

- Depending on the type of cellular phone, OBEX authentication may be required when transferring phonebook data. Enter “1234” into the Bluetooth® phone.



- This screen appears while transferring. To cancel this function, touch “**Cancel**”. If “**Add Contacts**” is touched and there is an interruption during the transfer of data, the phonebook data transferred until then will be stored in the system. This is not the case when “**Cancel**” is touched.

4 When the transfer is complete, “**Done**” will appear on the screen. Touch “**Done**”.



▶ When another Bluetooth® device is connected



- When another Bluetooth® device is currently connected, this screen is displayed.
- To disconnect it, touch “**Yes**”.

► From “Contacts” screen

Phonebooks of PBAP incompatible but OPP compatible phones can also be transferred from the “Contacts” screen.

- 1 Press the  button or the  switch on the steering wheel.
- 2 Touch “**Contacts**” on the “Phone” screen.
- 3 Touch “**Transfer**”.



- 4 This screen is displayed. The following operations are performed in the same manner as when they are performed from the “Setup” screen.

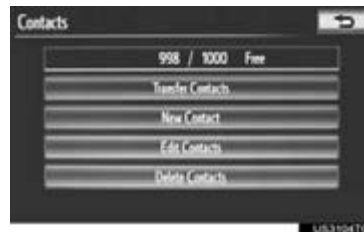


■ REGISTERING THE PHONEBOOK DATA

The phonebook data can be registered.

Up to 3 numbers per person can be registered. New phonebook data cannot be added for PBAP compatible Bluetooth® phones.

- 1 Touch “**New Contact**”.



- 2 Use the software keyboard to input the name and touch “**OK**”.



- 3 Input the phone number and touch “**OK**”.



- To use a tone signal after the phone number, input the tone signal too.

- 4 Touch the phone type.



- 5 When 2 or less numbers in total are registered to this contact, this screen is displayed.

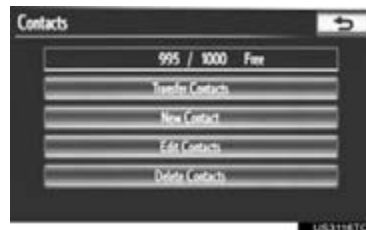


- To add a number to this contact, touch “Yes”.

EDITING THE PHONEBOOK DATA

The phone number can be registered in “Phone # 1”, “Phone # 2” and “Phone # 3” separately. Phonebooks cannot be edited for PBAP compatible Bluetooth® phones via the navigation system.

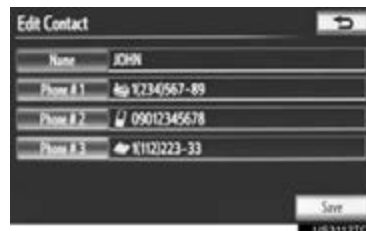
- 1 Touch “Edit Contacts”.



- 2 Touch the desired data to edit.



- 3 Touch the desired name or number.





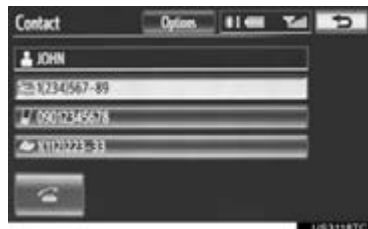
- 4 Edit the name or the number. (See “REGISTERING THE PHONEBOOK DATA” on page 161.)

- 5 Touch “Save” when editing is completed.

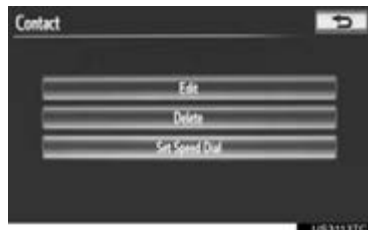
■ THE “Edit Contact” SCREEN CAN ALSO BE DISPLAYED

► From the “Contact” screen



- 1 Press the  button or the  switch on the steering wheel.
- 2 Touch “**Contacts**” on the “Phone” screen.
- 3 Touch the desired data from the list on the “Contacts” screen.
- 4 Touch “**Options**”.



- 5 Touch “**Edit**”.



► From the “Call History” screen

- 1 Press the  button or the  switch on the steering wheel.
- 2 Touch “**Call History**” on the “Phone” screen.
- 3 Touch the desired number from the list on the “Call History” screen.
- 4 Touch “**Add to Contacts**” or “**Update Contact**”.



- 5 If “**Update Contact**” has been touched, this screen will be displayed. Touch the desired data from the list.



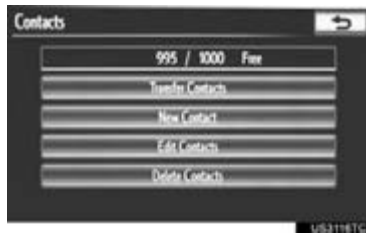
4

PHONE

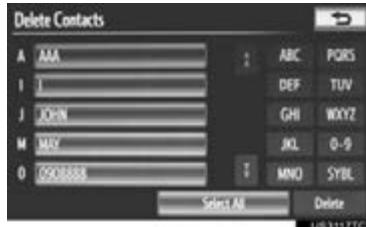
■ DELETING THE PHONEBOOK DATA

The data can be deleted.
 When selling or disposing of the vehicle, delete all your data on the system. For PBAP compatible phones, delete the phonebook data after setting “**Automatically Download Contacts**” to “**Off**”. (See “PBAP compatible models automatic data transfer setting” on page 159.)

- 1 Touch “Delete Contacts”.



- 2 Touch the desired data or “Select All”, then touch “Delete”.



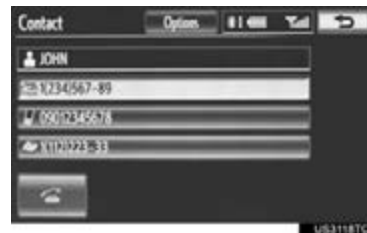
- Multiple data can be selected and deleted at the same time.

- 3 Touch “Yes”.

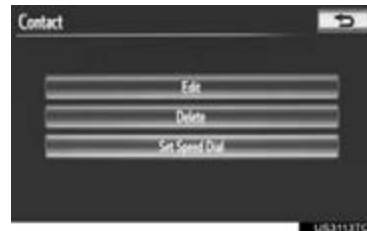
■ ALTERNATIVE PHONEBOOK DATA DELETION METHOD

▶ PBAP incompatible but OPP compatible models

- 1 Press the button or the switch on the steering wheel.
- 2 Touch “Contacts” on the “Phone” screen.
- 3 Touch the desired data from the list on the “Contacts” screen.
- 4 Touch “Options”.



- 5 Touch “Delete”.



- 6 Touch “Yes”.

INFORMATION

- When a Bluetooth® phone is deleted, the phonebook data will be deleted at the same time.

SPEED DIALS SETTING

Speed dials can be registered and deleted.

- 1 Press the **“SETUP”** button.
- 2 Touch **“Phone”** on the “Setup” screen.
- 3 Touch **“Phonebook”** on the “Phone Settings” screen.
- 4 Touch **“Manage Speed Dials”**.



- 5 Perform each setting according to the procedures outlined on the following pages.



THE “Speed Dials” SCREEN CAN ALSO BE DISPLAYED

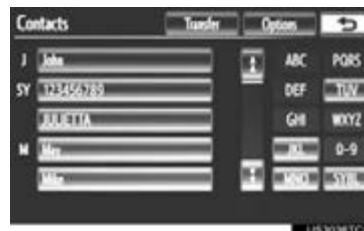
► From the “Speed Dial” screen

- 1 Press the button or the switch on the steering wheel.
- 2 Touch **“Speed Dials”** on the “Phone” screen.
- 3 Touch **“Options”**.



► From the “Contacts” screen

- 1 Press the button or the switch on the steering wheel.
- 2 Touch **“Contacts”** on the “Phone” screen.
- 3 Touch **“Options”**.



- 4 Touch **“Manage Speed Dials”**.



4 PHONE

2. SETUP

■ REGISTERING THE SPEED DIAL

Speed dial numbers can be registered by selecting the desired number from the phonebook. Up to 18 numbers per phone can be registered as a speed dial.

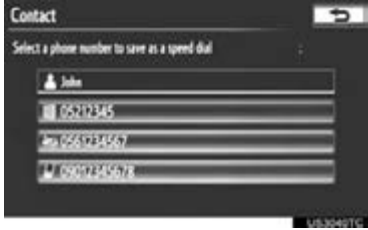
1 Touch “New”.



2 Touch the desired data to be registered.



3 Touch the desired phone number.



4 Touch the desired speed dial location.



5 If a location that is already in use is touched, this screen will be displayed.





● Touch “Yes” to replace it.

6 When this screen is displayed, the operation is complete.



■ THE SPEED DIAL CAN ALSO BE REGISTERED

► From the “Speed Dial” screen

- 1 Press the  button or the  switch on the steering wheel.
- 2 Touch “**Speed Dials**” on the “Phone” screen.
- 3 Touch “(add new)”.



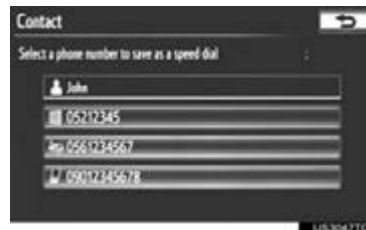
- 4 Touch “**Yes**” to set new speed dial.





- 5 Touch the desired data to be registered.



- 6 Touch the desired phone number.



► From the “Contact” screen

- 1 Press the  button or the  switch on the steering wheel.
- 2 Touch “**Contacts**” on the “Phone” screen.
- 3 Touch the desired data from the list on the “Contacts” screen.
- 4 Touch “**Options**”.



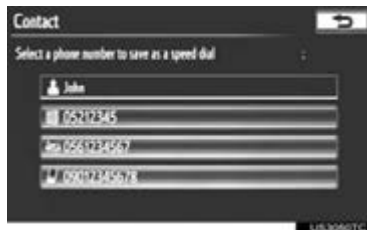
- 5 Touch “**Set Speed Dial**”.



4

PHONE

- 6 This screen is displayed.



- The following operations are performed in the same manner as when they are performed from the "Setup" screen.

DELETING THE SPEED DIAL

The speed dial can be deleted.

- 1 Touch "Delete".



- 2 Touch the desired data, or to delete all the data touch "Select All", then touch "Delete".



- Multiple data can be selected and deleted at the same time.

- 3 Touch "Yes".

DELETING CALL HISTORY

The call history can be deleted.
For PBAP compatible phones, delete the call history after setting "Automatically Download Call History" to "Off". (See "PBAP compatible models automatic data transfer setting" on page 159.)

- 1 Press the "SETUP" button.
- 2 Touch "Phone" on the "Setup" screen.
- 3 Touch "Phonebook" on the "Phone Settings" screen.
- 4 Touch "Delete Call History".



- 5 Touch the desired history to be deleted.



- 6 Touch the desired data, or to delete all the data touch **“Select All”**, then touch **“Delete”**.



- Multiple data can be selected and deleted at the same time.

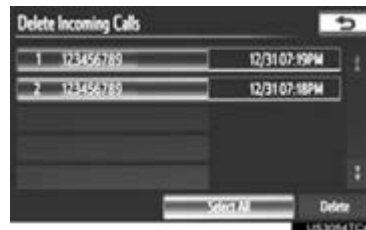
- 7 Touch **“Yes”**.

THE CALL HISTORY CAN ALSO BE DELETED

- 1 Press the button or the switch on the steering wheel.
- 2 Touch **“Call History”** on the “Phone” screen.
- 3 Touch **“Delete”**.



- 4 This screen is displayed.



- The following operations are performed in the same manner as when they are performed from the “Setup” screen.
 - Other call history can be operated similarly.
- ▶ Deleting after call history has been displayed

- 1 Press the button or the switch on the steering wheel.
- 2 Touch **“Call History”** on the “Phone” screen.
- 3 Touch the desired history to be deleted.



- 4 Touch **“Delete”**.



- 5 Touch **“Yes”**.

4

PHONE

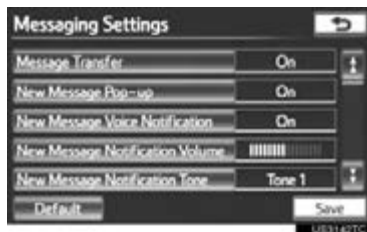
MESSAGE SETTINGS

Message settings can be changed.

- 1 Press the **“SETUP”** button.
- 2 Touch **“Phone”** on the “Setup” screen.
- 3 Touch **“Messaging Settings”**.



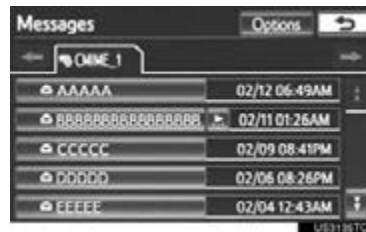
- 4 Perform each setting according to the procedures outlined on the following pages.



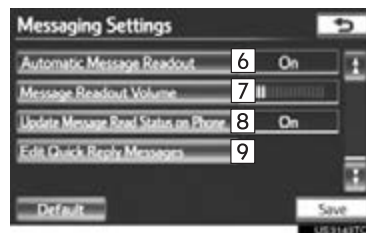
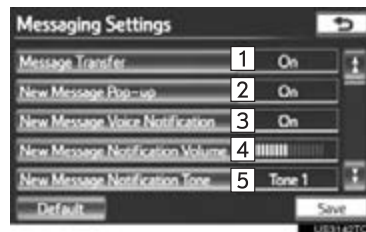
- 5 Touch **“Save”** when each setting is completed.

THE “Messaging Settings” SCREEN CAN ALSO BE DISPLAYED

- 1 Press the button or the switch on the steering wheel.
- 2 Touch **“Messages”** on the “Phone” screen.
- 3 Touch **“Options”**.



SCREEN FOR “Messaging Settings”



- On this screen, the following functions can be operated:

No.	Function
1	Touch to set message forwarding from cellular phones to “On” or “Off” .
2	Touch to set the new message notification display to “On” or “Off” .
3	Touch to set the new message voice notification to “On” or “Off” .
4	Touch to adjust the new message notification volume. (See “NEW MESSAGE NOTIFICATION VOLUME SETTINGS” on page 171.)
5	Touch to select a new message voice notification tone. (See “NEW MESSAGE NOTIFICATION TONE SETTINGS” on page 172.)
6	Touch to set the automatic message read out function to “On” or “Off” .
7	Touch to adjust the message read out volume. (See “MESSAGE READ OUT VOLUME SETTINGS” on page 172.)
8	Touch to set the cellular phone’s message read and unread status update function to “On” or “Off” .

No.	Function
9	Touch to edit quick reply messages. (See “EDIT QUICK REPLY MESSAGES” on page 173.)

- To reset all setup items, touch **“Default”**.

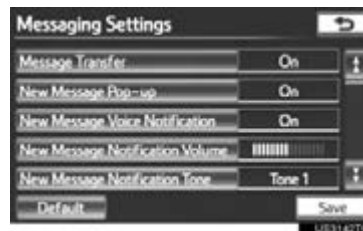
INFORMATION

- Depending on the phone, these functions may not be available.

NEW MESSAGE NOTIFICATION VOLUME SETTINGS

The new message notification volume can be adjusted.

- 1 Touch **“New Message Notification Volume”**.



- 2 Touch **“-”** or **“+”** to adjust the new message notification volume.



- 3 Touch **“OK”**.

4

PHONE

2. SETUP

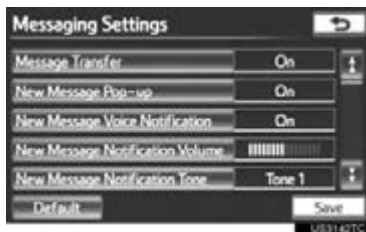
INFORMATION

- The system will automatically increase the volume when the speed exceeds 50 mph (80 km/h).

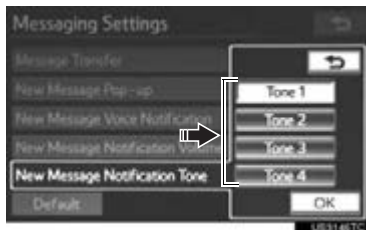
NEW MESSAGE NOTIFICATION TONE SETTINGS

A new message voice notification tone can be selected.

- 1 Touch **“New Message Notification Tone”**.



- 2 Touch the desired new message notification tone.



- New message notification tones can be heard by touching the screen buttons.

- 3 Touch **“OK”**.

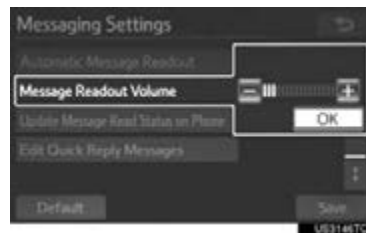
MESSAGE READ OUT VOLUME SETTINGS

Message read out volume can be adjusted.

- 1 Touch **“Message Readout Volume”**.



- 2 Touch **“-”** or **“+”** to adjust the message read out volume.



- 3 Touch **“OK”**.

INFORMATION

- The system will automatically increase the volume when the speed exceeds 50 mph (80 km/h).

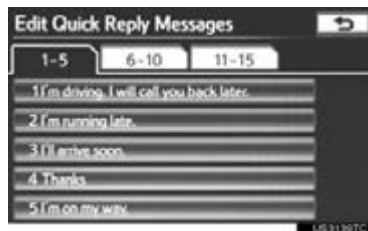
EDIT QUICK REPLY MESSAGES

Quick reply messages can be edited. 15 messages have already been stored.

- 1 Touch “Edit Quick Reply Messages”.



- 2 Touch the screen button corresponding to the desired message.

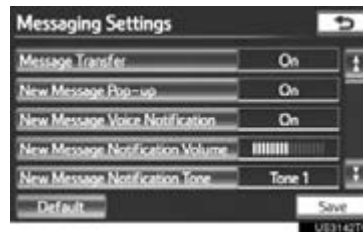


- 3 Use the software keyboard to edit the message.
- 4 Touch “OK”.

INITIALIZING THE SETTINGS

The settings can be initialized.

- 1 Touch “Default”.



- 2 Touch “Yes”.

4

PHONE

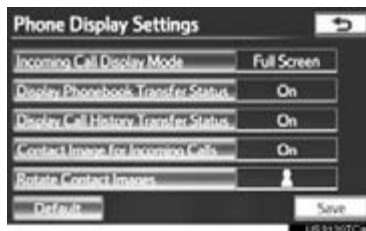
PHONE DISPLAY SETTINGS

The phone display settings can be changed.

- 1 Press the **“SETUP”** button.
- 2 Touch **“Phone”** on the “Setup” screen.
- 3 Touch **“Phone Display Settings”**.

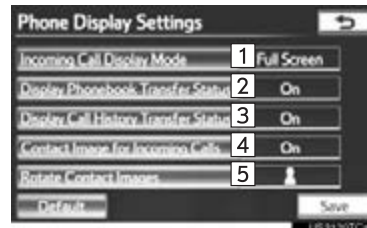


- 4 Perform each setting according to the procedures outlined on the following pages.



- 5 When each setting is completed, touch **“Save”**.

SCREEN FOR “Phone Display Settings”



- On this screen, the following functions can be operated:

No.	Function
1	Touch to change the incoming call display. (See “INCOMING CALL DISPLAY” on page 175.)
2	For PBAP compatible models, touch to set the display of the automatic phonebook transfer completion message to “On” or “Off”.
3	For PBAP compatible models, touch to set the display of the automatic call history transfer completion message to “On” or “Off”.
4	For PBAP compatible models, touch to set the display of images during calls to “On” or “Off”.
5	For PBAP compatible models, touch to set the orientation of images displayed during calls. (See “ROTATING CONTACT IMAGES” on page 176.)

- To reset all setup items, touch **“Default”**.

INFORMATION

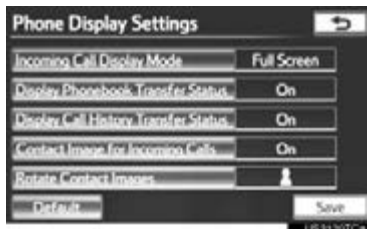
- Depending on the phone, these functions may not be available even if the phone is PBAP compatible.

INCOMING CALL DISPLAY

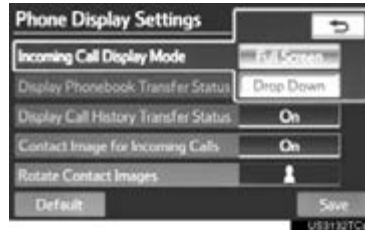
The type of incoming call display can be selected.



- 1 Touch **"Incoming Call Display Mode"**.



- 2 Touch **"Full Screen"** or **"Drop Down"**.



Screen button	Function
"Full Screen"	When a call is received, the hands-free screen is displayed and it can be operated on the screen.
"Drop Down"	The message is displayed on the upper side of the screen and it can only be operated via the steering wheel switches.

4
PHONE

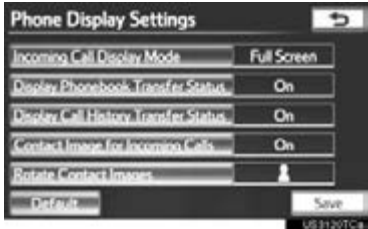
- 3 Touch **"Save"**.

2. SETUP

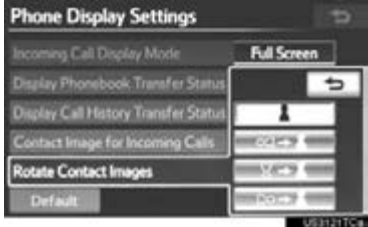
ROTATING CONTACT IMAGES

For PBAP compatible models, when **“Contact Image for Incoming Calls”** is set to **“On”**, images stored together with phone numbers in the cellular phone’s phonebook will be transferred and displayed during the incoming call. The orientation of the image can be set.

- 1 Touch **“Rotate Contact Images”**.



- 2 Select the desired orientation of the image to be displayed.

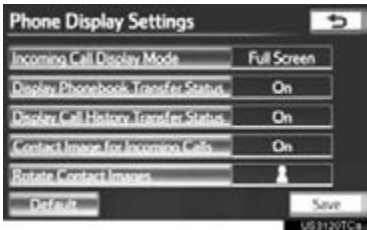


- 3 Touch **“Save”**.

INITIALIZING THE SETTINGS

The settings can be initialized.

- 1 Touch **“Default”**.



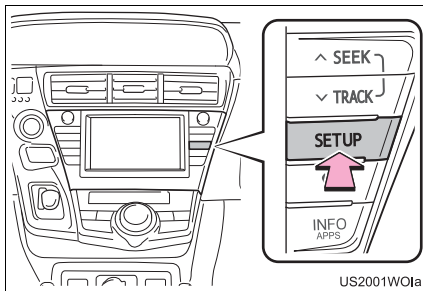
- 2 Touch **“Yes”**.

2. SETUP

2. Bluetooth® SETTINGS

A Bluetooth® device can be set up.

- 1 Press the **“SETUP”** button.



- 2 Touch **“Bluetooth*”**.



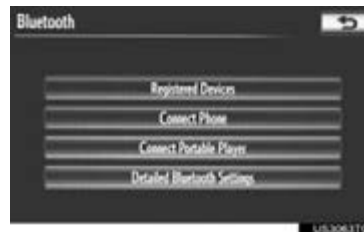
- 3 Perform each setting according to the procedures outlined on the following pages.



REGISTERED DEVICES

A Bluetooth® device can be registered, deleted or set up.

- 1 Press the **“SETUP”** button.
- 2 Touch **“Bluetooth*”** on the “Setup” screen.
- 3 Touch **“Registered Devices”**.



- 4 Perform each setting according to the procedures outlined on the following pages.



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

4

PHONE

REGISTERING A Bluetooth® DEVICE

Bluetooth® devices compatible with phones (HFP) and portable players (AVP) can be registered simultaneously. Phones (HFP) and portable players (AVP) (maximum of 5) can be registered.

- 1 Touch “Add New” to register a Bluetooth® device to the system.



- If 5 Bluetooth® devices have already been registered, a registered device needs to be deleted. See “When 5 Bluetooth® devices have already been registered” on page 179.

- 2 When this screen is displayed, operate the Bluetooth® device.



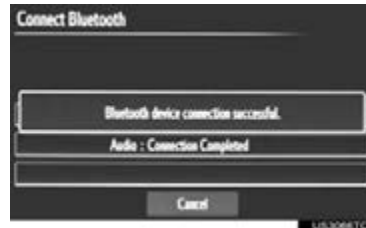
- Search for the navigation system displayed on the system’s screen using your Bluetooth® device, and register the Bluetooth® device.

For details about operating the Bluetooth® device, see the manual that comes with it.

- A passcode is not required for SSP (Secure Simple Pairing) compatible Bluetooth® devices. Depending on the type of Bluetooth® phone being connected, a message confirming registration may be displayed on the Bluetooth® phone’s screen. Respond and operate the Bluetooth® phone according to the confirmation message.

- To cancel the registration, touch “Cancel”.

- 3 When the connection is completed, this screen is displayed.



- When using the same device, it is not necessary to register it again.



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



- When another Bluetooth® device is currently connected, this screen is displayed.
- To disconnect the Bluetooth® device, touch **“Yes”**.
- ▶ When 5 Bluetooth® devices have already been registered

- 1 When 5 Bluetooth® devices have already been registered, a registered device needs to be deleted. Touch **“Yes”** to delete 1 or more.
- 2 Touch the device to be deleted, then touch **“Remove”**.
- 3 Touch **“Yes”**.

DELETING A Bluetooth® DEVICE

- 1 Touch **“Remove”**.



- 2 Touch the desired device, or to delete all the devices touch **“Select All”**, then touch **“Remove”**.



- Multiple devices can be selected and deleted at the same time.

- 3 Touch **“Yes”**.

INFORMATION

- When deleting a Bluetooth® phone, the phonebook data will be deleted at the same time.

4

PHONE

EDITING THE Bluetooth® DEVICE

The Bluetooth® device's information can be displayed on the screen. The displayed information can also be edited.

“Device Name”: The name of the Bluetooth® device which is displayed on the screen. It can be changed to a desired name.

- Even if the device name is changed, the name registered in your Bluetooth® device does not change.

“Device Address”: The device address is unique to each device. It cannot be changed.

- If 2 Bluetooth® devices have been registered with the same device name, the devices can be distinguished referring to the device's address.

“My Phone Number”: The phone number of the Bluetooth® phone is displayed on the screen. Depending on the type of phone, the phone number may not be displayed.

“Profiles”: The compatibility profile of the Bluetooth® device is displayed on the screen.

“Connect Portable Player from”: There are 2 portable player connection settings available; **“Vehicle”** and **“Portable Player”**.

CHANGING A DEVICE NAME

- 1 Touch **“Details”**.



- 2 Touch the device to be edited.



- 3 Touch **“Device Name”**.



- 4 Use the software keyboard to input the device name and touch **“OK”**.



- 5 Confirm the device name and touch **“OK”**.

SETTING PORTABLE PLAYER CONNECTION METHOD

- 1 Touch “Connect Portable Player from”.



- 2 Touch the desired connection method.



“**Vehicle**”: Touch to connect the audio system to the portable player.

“**Portable Player**”: Touch to connect the portable player to the audio system.

- Depending on the portable player, the “**Vehicle**” or “**Portable Player**” connection method may be best. As such, refer to the manual that comes with the portable player.

- 3 Touch “OK”.

SELECTING A Bluetooth® PHONE

If more than 1 Bluetooth® phone has been registered, it is necessary to select which phone to connect to.

It is possible to select from up to 5 registered Bluetooth® devices (Phones (HFP) and portable players (AVP) (maximum of 5) can be registered.)

Although up to 5 Bluetooth® phones can be registered in the system, only 1 Bluetooth® phone can function at a time.

- 1 Press the “**SETUP**” button.
- 2 Touch “**Bluetooth***” on the “Setup” screen.
- 3 Touch “**Connect Phone**”.



- 4 Touch the phone to be connected.



- The indicator of the selected Bluetooth® phone will turn on.

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4

PHONE

2. SETUP

- If the desired Bluetooth® phone is not on the list, touch “**Add New**” to register the phone. (See page 178.)
- The currently connected Bluetooth® phone’s screen button will have a Bluetooth® mark displayed on it. If the currently connected Bluetooth® phone’s screen button is touched, the Bluetooth® phone can be disconnected. Touch “**Yes**” to disconnect.

5 This screen is displayed.



6 When the result message is displayed, the Bluetooth® phone can be used.



- ▶ When a phone is connected 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. To disconnect the Bluetooth® device, touch “**Yes**”.



SELECTING PORTABLE PLAYER

If more than 1 portable player has been registered, it is necessary to select which portable player to connect to.

It is possible to select from up to 5 registered Bluetooth® devices (Phones (HFP) and portable players (AVP) (maximum of 5) can be registered.)

Although up to 5 portable players can be registered in the system, only 1 portable player can function at a time.

- 1 Press the **“SETUP”** button.
- 2 Touch **“Bluetooth*”** on the “Setup” screen.
- 3 Touch **“Connect Portable Player”**.



- 4 Touch the desired portable player to be connected.



- The indicator of the selected portable player will turn on.

- If the desired portable player is not on the list, touch **“Add New”** to register the portable player. (See page 178.)
- The currently connected portable player's screen button will have a Bluetooth® mark displayed on it. If the currently connected portable player's screen button is touched, the portable player can be disconnected. Touch **“Yes”** to disconnect.

- 5 This screen is displayed.



- 6 When the result message is displayed, the portable player can be used.



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

4

PHONE

2. SETUP

- ▶ When another Bluetooth® device is connected
- When another Bluetooth® device is currently connected, this screen is displayed. To disconnect it, touch “Yes”.



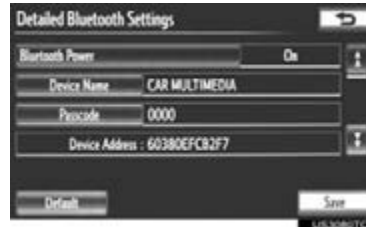
DETAILED Bluetooth® SETTINGS

The Bluetooth® settings can be confirmed and changed.

- 1 Press the “**SETUP**” button.
- 2 Touch “**Bluetooth***” on the “Setup” screen.
- 3 Touch “**Detailed Bluetooth* Settings**”.



- 4 This screen is displayed.



- The information displays the following items:

Screen button/ Screen item	Information
“Device Name”	This name will be displayed on the device when it is connected. It can be changed to a desired name.
“Passcode”	The password that was set when the Bluetooth® device was registered can be changed.
Device Address	The device address is unique to each device. It cannot be changed.
Profiles	The compatibility profile of the Bluetooth® device is displayed on the screen. (See pages 132 and 242.)

- If it is desirable to change the settings, refer to the following pages.
- When the settings have been changed, touch “**Save**”.

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

CHANGING THE Bluetooth® SETTINGS

The Bluetooth® settings can be changed according to the following procedures.

■ CHANGING “Bluetooth* Power”

The “Bluetooth* Power” display shows the following state.

When “Bluetooth* Power” is “On”:

The Bluetooth® device is automatically connected when the “POWER” switch is in ACCESSORY or ON mode.

When “Bluetooth* Power” is “Off”:

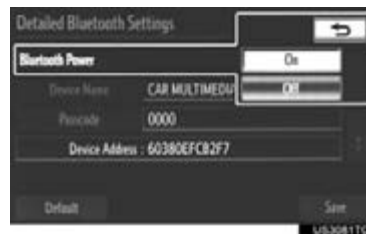
The Bluetooth® device is disconnected, and the system will not connect to it next time.

- The “Bluetooth* Power” auto connection state can be set on or off.
 - “On”: The auto connection is turned on.
 - “Off”: The auto connection is turned off.
- The auto connection state cannot be changed from “On” to “Off” while driving, but it can be changed from “Off” to “On”.

1 Touch “Bluetooth* Power”.



2 Touch “On” or “Off”.



3 Touch “Save”.

- In the event the state of “Bluetooth* Power” is changed from “Off” to “On”, Bluetooth® connection will begin.

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

4

PHONE

2. SETUP

■ EDITING THE DEVICE NAME

- 1 Touch **“Device Name”**.



- 2 Use the software keyboard to input the device name and touch **“OK”**.



- 3 Touch **“Save”**.

■ EDITING THE PASSCODE

- 1 Touch **“Passcode”**.



- 2 Input a passcode and touch **“OK”**.

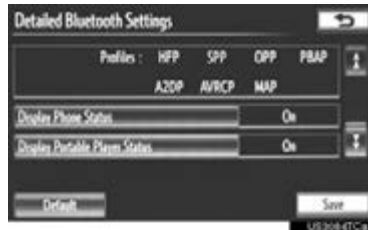


- 3 Touch **“Save”**.

Bluetooth® DEVICE CONNECTION STATUS DISPLAY SETTINGS

When “Bluetooth* Power” is “On” and the “POWER” switch is in ACCESSORY or ON mode, the Bluetooth® phone and portable player’s connection status can be displayed. (See “CHANGING “Bluetooth* Power”” on page 185.)

- 1 Touch “Display Phone Status” or “Display Portable Player Status”.



- 2 Touch “On”.

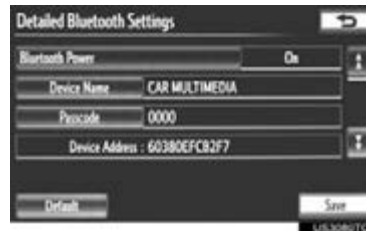


- 3 Touch “Save”.

INITIALIZING THE Bluetooth® SETTINGS

The settings can be initialized.

- 1 Touch “Default”.



- 2 Touch “Yes”.

- If the state of “Bluetooth* Power” is changed from “Off” into “On”, Bluetooth® connection will begin.

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

4

PHONE

5

AUDIO/VIDEO SYSTEM

1 AUDIO/VIDEO SYSTEM OPERATION

1. QUICK REFERENCE	190
2. SOME BASICS	192
VOICE COMMAND SYSTEM	193
AUDIO SPLIT SCREEN DISPLAY	193
TURNING THE SYSTEM ON AND OFF	193
SWITCHING BETWEEN FUNCTIONS	194
DSP CONTROL	195
TONE AND BALANCE	195
SELECTING SCREEN SIZE	196
DVD PLAYER	197
AUX PORT	198
USB PORT	198
3. RADIO OPERATION	199
LISTENING TO THE RADIO	199
PRESETTING A STATION	199
SELECTING A STATION	200
RADIO BROADCAST DATA SYSTEM	200
TRAFFIC ANNOUNCEMENT	201
4. HD Radio™ TECHNOLOGY INFORMATION	202
USING HD Radio™ TECHNOLOGY	202
AVAILABLE HD Radio™ TECHNOLOGY	203
TROUBLESHOOTING GUIDE	204

5

AUDIO/VIDEO SYSTEM

5. RADIO OPERATION (XM Satellite Radio BROADCAST)	206	
HOW TO SUBSCRIBE TO AN XM Satellite Radio	206	
DISPLAYING THE RADIO ID	207	
LISTENING TO SATELLITE RADIO ...	207	
CHANNEL CATEGORY	208	
PRESETTING A CHANNEL	208	
SELECTING A CHANNEL	208	
DISPLAYING THE TITLE AND NAME	209	
IF THE SATELLITE RADIO TUNER MALFUNCTIONS	210	
6. RADIO OPERATION (INTERNET RADIO BROADCAST).....	212	
LISTENING TO INTERNET RADIO ...	212	
7. DVD PLAYER OPERATION	213	
INSERTING A DISC	213	
EJECTING A DISC	213	
PLAYING A DISC	214	
PLAYING AN AUDIO DISC	214	
PLAYING AN MP3/WMA DISC	216	
OPERATING A DVD DISC	219	
PLAYING A DVD DISC	220	
DVD OPTIONS	222	
IF THE PLAYER MALFUNCTIONS.....	230	
DVD PLAYER AND DVD VIDEO DISC INFORMATION	231	
8. USB MEMORY OPERATION	233	
CONNECTING A USB MEMORY	233	
PLAYING A USB MEMORY	234	
9. iPod OPERATION	238	
CONNECTING iPod	238	
PLAYING iPod	238	
10. Bluetooth® AUDIO OPERATION	242	
CONNECTING A Bluetooth® AUDIO PLAYER	245	
PLAYING Bluetooth® AUDIO	247	
11. AUDIO/VIDEO REMOTE CONTROLS (STEERING SWITCHES).....	252	
12. AUDIO/VIDEO SYSTEM OPERATING HINTS.....	254	
RADIO RECEPTION	254	
iPod	255	
USB MEMORY	256	
CARING FOR YOUR DVD PLAYER AND DISC	256	
MP3/WMA FILES	258	
CD-R AND CD-RW DISCS	260	
TERMS	260	
2 SETUP		
1. AUDIO SETTINGS	264	
HD Radio™ SYSTEM SETTINGS	264	
iPod SETTINGS	265	

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2

3

4

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6

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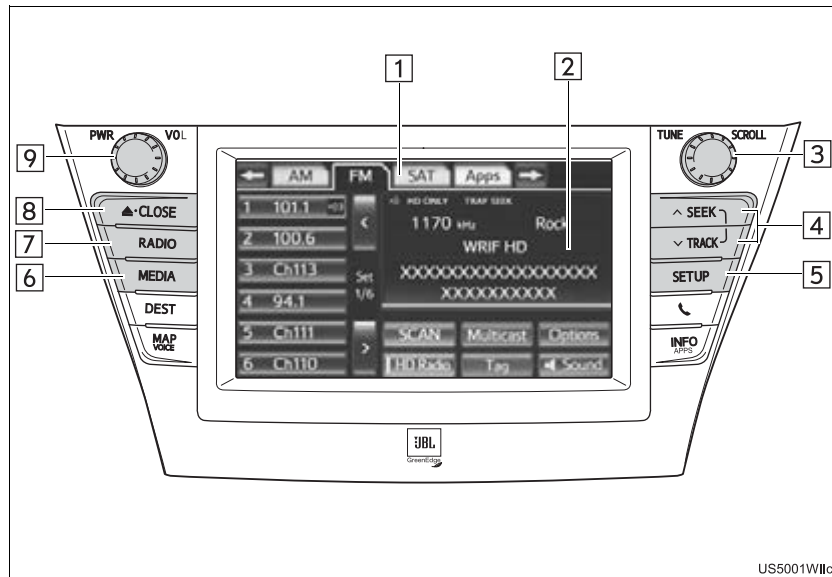
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9

1. AUDIO/VIDEO SYSTEM OPERATION

1. QUICK REFERENCE

Operations such as selecting a preset station and adjusting the sound balance are carried out on the screen. Press the “**RADIO**” or “**MEDIA**” button to display the audio/video screen.



1. AUDIO/VIDEO SYSTEM OPERATION

No.	Name	Function	Page
1	Function menu tab	Touch the desired radio or media mode screen tab.	194
2	Function menu display screen	Touch to control the selected radio or media mode.	194
3	"TUNE SCROLL" knob	Turn to step up and step down the station band, change to the next or previous satellite radio channel, or skip to the next or previous track, DVD chapter, etc. Also, the knob can be used to enter selections on the track/file and album/folder screens by pressing it.	199, 207, 214, 216, 220, 234, 238, 247
4	"SEEK/TRACK" button	Press the "∧" or "∨" button to seek up or down for a station or channel or to access a desired track, file or chapter.	200, 208, 214, 216, 220, 234, 238, 247
5	"SETUP" button	Press to display the "Setup" screen.	264
6	"MEDIA" button	Press to display the media control screen.	193
7	"RADIO" button	Press to display the radio control screen.	193
8	"▲·CLOSE" button	Press to insert or eject a disc.	197, 213
9	"PWR VOL" knob	Press to turn the audio/video system on and off, and turn to adjust the volume.	193

5

AUDIO/VIDEO SYSTEM

1. AUDIO/VIDEO SYSTEM OPERATION

2. SOME BASICS

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

Your audio/video 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.

CAUTION

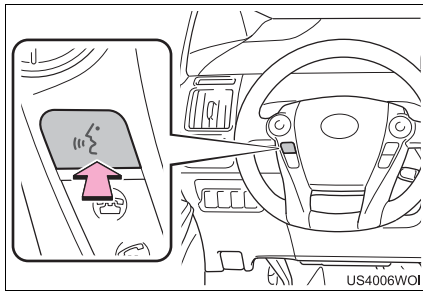
- Laser products
 - Do not take this unit apart or attempt to make any changes yourself. This is an intricate unit that uses a laser pickup to retrieve information from the surface of compact discs. The laser is carefully shielded so that its rays remain inside the cabinet. Therefore, never try to disassemble 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/video system on longer than necessary when the hybrid system is not operating.

VOICE COMMAND SYSTEM

Press this switch to operate the voice command system.



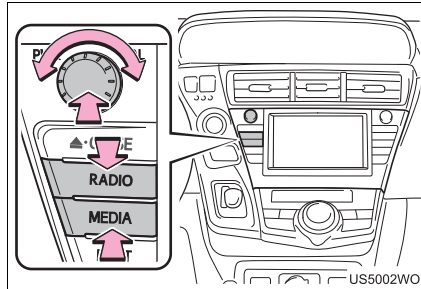
- For the operation of the voice command system and its list of commands, see pages 268 and 277.

AUDIO SPLIT SCREEN DISPLAY

The audio split screen can be displayed while the map screen is displayed. For details, see page 39.



TURNING THE SYSTEM ON AND OFF



“RADIO”, “MEDIA” button: Press to display screen buttons for the audio/video system.

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

- A function that enables automatic return to the previous screen from the audio/video screen can be selected. See page 43 for details.

5

AUDIO/VIDEO SYSTEM





SWITCHING BETWEEN FUNCTIONS

- Each time the **“RADIO”** or **“MEDIA”** button is pressed, the audio control mode changes.



“RADIO” button: To display the **“AM”**, **“FM”**, **“SAT”** and **“Apps”** tabs on the screen. (Radio mode)

“MEDIA” button: To display the **“DISC”**, **“BT Audio”**, **“AUX”**, **“USB”** and **“iPod”** tabs on the screen. (Media mode)

- Up to 4 tabs can be displayed on the screen. Touch  or , located either side of the screen tabs, to display tabs from the previous or next page.
- The desired audio mode can be found by touching  or  and then selecting that audio mode tab.

INFORMATION

- If a disc is not inserted, the DVD player cannot be turned on.
- The DVD player can be turned off by ejecting a disc.
- When radio or media mode is selected, the respective screen buttons are displayed on the screen.
- Dimmed screen buttons cannot be operated.
- If the system does not respond to a touch of a screen button, move your finger away from the screen and then touch it again.
- Wipe off fingerprints using a glass cleaning cloth. Do not use chemical cleaners to clean the screen.

DSP CONTROL

- 1 Press the “**RADIO**” or “**MEDIA**” button.
- 2 Touch .



- 3 Touch the “**DSP**” tab to display this screen.



- 4 Touch the desired items to be set.
- 5 Touch “**OK**”.

AUTOMATIC SOUND LEVELIZER (ASL)

The system adjusts to the optimum volume and tone quality according to vehicle speed to compensate for increased vehicle noise.

- 1 Touch “**Automatic Sound Levelizer**”.
- 2 Touch “**ON**” or “**OFF**”.

SURROUND FUNCTION

This function can create a feeling of presence.

- 1 Touch “**Surround**”.
- 2 Touch “**ON**” or “**OFF**”.

STONE AND BALANCE

TONE

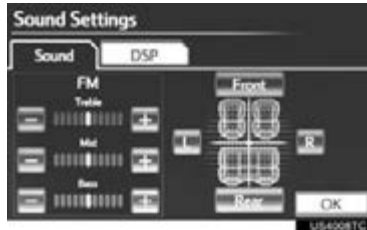
How good an audio program sounds is largely determined by the mix of the treble, mid and bass levels. In fact, different kinds of music and vocal programs usually sound better with different mixes of treble, mid and bass.

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 when listening to a stereo recording or broadcast, changing the right/left balance will increase the volume of 1 group of sounds while decreasing the volume of another.

- 1 Touch the **“Sound”** tab to display this screen.



- 2 Touch the desired screen button.

Screen button	Function
“Treble” “+” or “-”	Touch to adjust high-pitched tones.
“Mid” “+” or “-”	Touch to adjust mid-pitched tones.
“Bass” “+” or “-”	Touch to adjust low-pitched tones.
“Front” or “Rear”	Touch to adjust the sound balance between the front and rear speakers.
“L” or “R”	Touch to adjust the sound balance between the left and right speakers.

- 3 Touch **“OK”**.

INFORMATION

- The tone of each mode (such as AM, FM and DVD player) can be adjusted.

SELECTING SCREEN SIZE

Before selecting screen size, it is necessary to insert a DVD disc and select DISC mode.

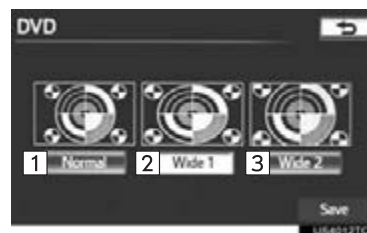
- 1 Press the **“MEDIA”** button.
- 2 Touch the **“DISC”** tab.
- 3 Touch **“Options”**.




- 4 Touch **“Wide”**.



- 5 Touch the desired screen button.



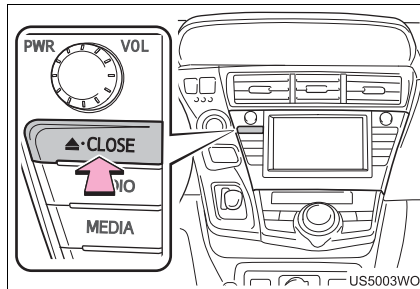
No.	Function
1	Touch to display a 3 : 4 screen, with either side in black.
2	Touch to widen the 3 : 4 screen horizontally to fill the screen.
3	Touch to widen the 3 : 4 screen vertically and horizontally, by the same ratio, to fill the screen.

- When  is touched, the previous screen is displayed.

6 Touch “Save”.

DVD PLAYER

- 1 When inserting a disc, press the “▲·CLOSE” button and gently insert the disc with the label facing up.



NOTICE

- Never try to disassemble or oil any part of the DVD player. Do not insert anything other than a disc into the slot.

INFORMATION

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

5

AUDIO/VIDEO SYSTEM

AUX PORT

The sound of portable audio players connected to the AUX port can be enjoyed. For details, refer to "Owner's Manual".

- 1 Press the "**MEDIA**" button to display the media control screen and touch the "**AUX**" tab or press the "**MEDIA**" button repeatedly to change to AUX mode.

CAUTION

- Do not connect portable audio device or operate the controls while driving.

NOTICE

- Do not leave portable audio device in the vehicle. The temperature inside the vehicle may become high, resulting in damage to the player.
- Do not push down on or apply unnecessary pressure to the portable audio device while it is connected as this may damage the portable audio device or its terminal.
- Do not insert foreign objects into the port as this may damage the portable audio device or its terminal.

INFORMATION

- When the portable audio player is not connected to the AUX port, the tab will be dimmed.

USB PORT

A USB memory/iPod can be connected to the USB port. For details, see "CONNECTING A USB MEMORY" on page 233 and "CONNECTING iPod" on page 238.

- 1 Press the "**MEDIA**" button to display the media control screen and touch the "**USB**" or "**iPod**" tab or press the "**MEDIA**" button repeatedly to change to USB memory/iPod mode.

INFORMATION

- When a USB memory/iPod is not connected with the USB port, the tab will be dimmed.

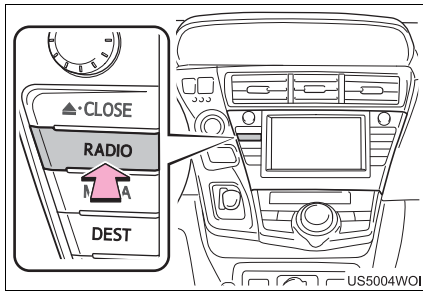
1. AUDIO/VIDEO SYSTEM OPERATION

3. RADIO OPERATION

LISTENING TO THE RADIO

SELECTING A RADIO STATION

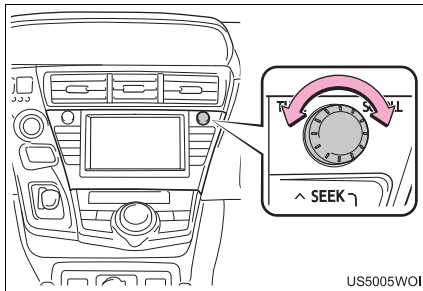
- 1 Press the “**RADIO**” button to display the radio control screen.



- 2 Touch the “**AM**”, “**FM**”, “**SAT**” or “**Apps**” tab or press the “**RADIO**” button repeatedly to select the desired tab.

STEP UP AND DOWN THE STATION BAND

- 1 Turn the knob clockwise to step up the station band or counterclockwise to step down.



INFORMATION

- The radio automatically changes to stereo reception when a stereo broadcast is received.

PRESETTING A STATION

Radio mode has a mix preset function, which can store up to 36 stations (6 stations per page x 6 pages) from any of the AM, FM or SAT bands.

- 1 Tune in the desired station.
- 2 Touch one of the left side screen buttons (1-6) and hold it until a beep is heard. This sets the frequency to the screen button. The station's frequency will be displayed in the screen button.



- To change the preset station to a different one, follow the same procedure.

5

AUDIO/VIDEO SYSTEM

SELECTING A STATION

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

Preset tuning: Touch one of the mix preset channels on the left side of the screen to select the desired station. The screen button is highlighted and the station frequency appears on the screen.

Seek tuning: Press 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 when a station is found. Each time the button is pressed, the stations will be searched automatically one after another.

To scan all the frequencies: Touch “SCAN”. “SCAN” will appear on the screen. The radio will find the next station and stay there for 10 seconds if “All” or “HD Only” is selected, or 5 seconds if “Analog” is selected, and then scan again. To stay tuned to a station and stop the scanning, touch “SCAN” again. (To set HD Radio™ system, see page 264.)

RADIO BROADCAST DATA SYSTEM

This audio system is equipped with Radio Broadcast Data Systems (RBDS). RBDS mode allows text messages to be received from radio stations that utilize RBDS transmitters.

When RBDS is on, the radio can

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

RBDS features are available only when listening to an FM station that broadcasts RBDS information and the “FM info” indicator is on.

SELECTING A DESIRED TYPE

1 Touch “Options”.



- 2 Touch “**TYPE >**” or “**< TYPE**” to move forward and backward through the program list.



- Once a program type has been set, “TYPE SEEK” will appear on the screen.
 - The program list is in the following order:
 - Classical
 - Country
 - EasyLis (Easy Listening)
 - Inform (Information)
 - Jazz
 - News
 - Oldies
 - Other
 - Pop Music
 - Religion
 - Rock
 - R&B (Rhythm and Blues)
 - Sports
 - Talk
 - Traffic (Not available when “HD Radio Settings” are set to analog.)
 - Alert (Emergency Alert)
- 3 Touch “**TYPE SEEK**” and the system will start to seek for stations in the relevant program type.

INFORMATION

- If no relevant program can be found, “no type” will appear on the screen.

TRAFFIC ANNOUNCEMENT

A station that regularly broadcasts traffic information is automatically located.



“**Traffic**”: Touch to seek a traffic program station. “TRAF SEEK” will appear on the screen.

INFORMATION

- If no traffic program station is found, “No Traffic” will appear on the screen.
- If a traffic program station is found, the name of the traffic program station will be displayed for a while.

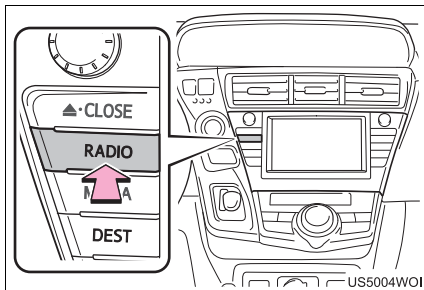
1. AUDIO/VIDEO SYSTEM OPERATION

4. HD Radio™ TECHNOLOGY INFORMATION

HD Radio™ Technology is the digital evolution of analog AM/FM radio. Your radio product has a special receiver which allows it to receive digital broadcasts (where available) in addition to the analog broadcasts it already receives. Digital broadcasts have better sound quality than analog broadcasts as digital broadcasts provide free, crystal clear audio with no static or distortion. For more information, and a guide to available radio stations and programming, refer to www.hdradio.com.

USING HD Radio™ TECHNOLOGY

- 1 Press the **"RADIO"** button to display the radio control screen.



- 2 Touch the **"AM"** or **"FM"** tab or press the **"RADIO"** button repeatedly to select the desired tab.



- As a user works through the analog radio stations, (where applicable) the radio receiver will automatically tune from an analog signal to a digital signal within 10 seconds.
 - An orange "HD" logo indicator will be displayed on the screen when in digital. The "HD" logo will first appear in a gray color indicating the station is indeed (an analog and) a digital station. Once the digital signal is acquired, the logo will change to a bright orange color.
 - The song title, artist name and music genre will appear on the screen when available by the radio station.
- 3 This screen will be displayed if **"Options"** is touched.



- When “Text” is touched, information such as the artist name, song title, album title and music genre of the track being listened to are displayed on the text screen. To display messages from the station, touch “Additional Information”.
- When “TYPE >” or “< TYPE” is touched, a program type will be searched. Once a program type has been set, “TYPE SEEK” will appear on the screen. (See “SELECTING A DESIRED TYPE” on page 200.)

AVAILABLE HD Radio™ TECHNOLOGY

MULTICAST

On the FM radio frequency most digital stations have “multiple” or supplemental programs on one FM station.

- 1 Touch “Multicast”.



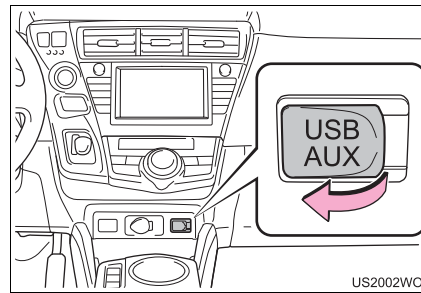
- Each time “Multicast” is touched, the supplemental program changes.
- If “Multicast” is touched when tuned to the last of the supplemental programs, the main program will be returned to.

TAG

- 1 Touch “Tag” to bookmark the music information.



- 2 Open the cover and connect iPod using an iPod cable.



- Turn on the power of the iPod if it is not turned on.
- Once an iPod is connected, the music tag moves from the radio into the iPod.
- When the iPod is connected to iTunes, the “tagged” information of the songs which were tagged while listening to the radio can be viewed. Then a user may decide to purchase the song or CD/Album which had been listened to on their radio.

INFORMATION

- If tagging the music information fails, “Saving the HD Radio tag failed.” will be displayed on the screen. If this occurs, tag the information again.
- HD Radio™ stations can be preset.

5
AUDIO/VIDEO SYSTEM

TROUBLESHOOTING GUIDE

Experience	Cause	Action
Mismatch of time alignment- a user may hear a short period of programming replayed or an echo, stutter or skip.	The radio stations analog and digital volume is not properly aligned or the station is in ballgame mode.	None, radio broadcast issue. A user can contact the radio station.
Sound fades, blending in and out.	Radio is shifting between analog and digital audio.	Reception issue, may clear-up as the vehicle continues to be driven. Touching " Analog " can force radio in an analog audio.
Audio mute condition when an HD2/HD3 multicast channel had been playing.	The radio does not have access to digital signals at the moment.	This is normal behavior, wait until the digital signal returns. If out of the coverage area, seek a new station.
Audio mute delay when selecting an HD2/HD3 multicast channel preset.	The digital multicast content is not available until HD Radio™ broadcast can be decoded and make the audio available. This takes up to 7 seconds.	This is normal behavior, wait for the audio to become available.
Text information does not match the present song audio.	Data service issue by the radio broadcaster.	Broadcaster should be notified. Complete the form; www.ibequality.com/automotive/report_radio_station_experiences .
No text information shown for the present selected frequency.	Data service issue by the radio broadcaster.	Broadcaster should be notified. Complete the form; www.ibequality.com/automotive/report_radio_station_experiences .



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1. AUDIO/VIDEO SYSTEM OPERATION

5. RADIO OPERATION (XM Satellite Radio BROADCAST)

HOW TO SUBSCRIBE TO AN XM Satellite Radio

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

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

It is necessary to enter into a separate service agreement with 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 digital satellite tuner.

- For complete information on subscription rates and terms, or to subscribe to XM Satellite Radio:
 - ▶ U.S.A.
Refer to www.siriusxm.com or call 1-800-967-2346.
 - ▶ Canada
Refer to www.xmradio.ca or call 1-877-209-0079.

INFORMATION

- 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 "CH 000" on the radio. For details, see "DISPLAYING THE RADIO ID" below.
- All fees and programming are the responsibility of 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 XM Satellite Radio.

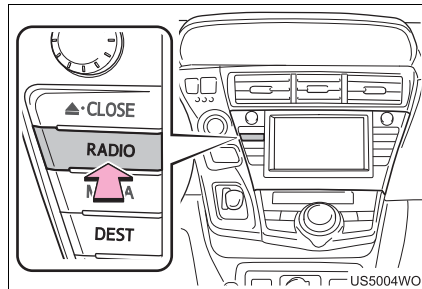
DISPLAYING THE RADIO ID

Each XM tuner is identified with a unique radio ID. The radio ID is required when activating an XM service or when reporting a problem.

- If “CH 000” is selected using the “**TUNE SCROLL**” knob, the ID code, which is 8 alphanumeric characters, will be displayed. If another channel is selected, the ID code will no longer be displayed. The channel (000) alternates between displaying the radio ID and the specific radio code.

LISTENING TO SATELLITE RADIO

- 1 Press the “**RADIO**” button to display the radio control screen.



- 2 Touch the “**SAT**” tab or press the “**RADIO**” button repeatedly until the “**SAT**” tab is selected to choose a satellite broadcast channel.



- 3 Turn the “**TUNE SCROLL**” knob to select the next or previous channel.
 - Turning the knob quickly allows rapid scrolling through the channel list.

5

AUDIO/VIDEO SYSTEM

CHANNEL CATEGORY

- 1 Touch either “TYPE >” or “< TYPE” to go to the next or previous category.



PRESETTING A CHANNEL

- 1 Tune in the desired channel. Make sure the desired channel is received.
- 2 Touch one of the left side screen buttons (1-6) and hold it until a beep is heard. This sets the frequency to the screen button. The channel number will be displayed in the screen button.



- To change the preset channel to a different one, follow the same procedure.

SELECTING A CHANNEL

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

Preset tuning: Touch the channel selector screen button (1-6) to listen to the desired channel. The selected screen button (1-6) is highlighted and its related information appears on the right side of the screen.

To select a channel within the current category: Press the “^” or “v” button of “SEEK/TRACK”. The radio will change up or down to a channel within the current channel category.



To scan the currently selected channel category: Touch “SCAN”. “SCAN” appears on the screen. 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” again.

DISPLAYING THE TITLE AND NAME

- 1 Touch **“Text”** to display the artist name and song title currently being listening to.



INFORMATION

- Up to 64 alphanumeric characters can be displayed. (Some information will not be fully displayed.)

1. AUDIO/VIDEO SYSTEM OPERATION

IF THE SATELLITE RADIO TUNER MALFUNCTIONS

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

Message	Explanation
Ck 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.
Ch Unauth	You have not subscribed to XM Satellite Radio. The radio is being updated with the latest encryption code. Contact XM Satellite Radio for subscription information. When a contract is canceled, you can choose "CH 000" 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 "CH 001". If it does not change automatically, select another channel. To listen to the premium channel, contact 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.
Ch 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 is required.
Ch Unavail	The channel you selected is no longer available. Wait for about 2 seconds until the radio returns to the previous channel or "CH 001". If it does not change automatically, select another channel.

INFORMATION

- Contact the XM Listener Care Center at 1-800-967-2346 (U.S.A.) or 1-877-209-0079 (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
 - Alternation 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".

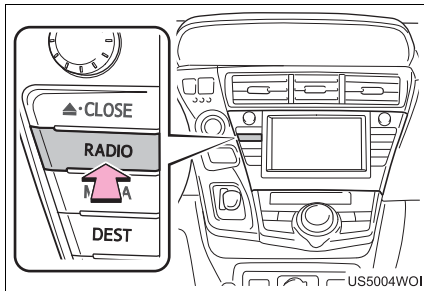
*: Text Information includes, Station Name, (Artist) Name, (Song) Title and Category Name.

6. RADIO OPERATION (INTERNET RADIO BROADCAST)

LISTENING TO INTERNET RADIO

One of Entune's features is the ability to listen to internet radio. In order to use this service, an Entune compatible phone and the navigation system needs to be set. For details, refer to the "ENTUNE SERVICE" section. (See page 304.)

- 1 Press the "RADIO" button.



- 2 Touch the "Apps" tab on the screen or press the "RADIO" button repeatedly until the "Apps" tab is selected.



- If a compatible phone is already registered, it will be connected automatically.
 - If a compatible phone has not been registered or the Bluetooth® connection cannot be completed correctly, touch "Connect" to register and/or connect your phone. (See page 177.)
 - When connection is complete, the application screen can be displayed.
- 3 Touch "View Application Screen".
- The internet radio application screen is displayed.
 - Perform operations according to the displayed application screen.
 - By pressing the "RADIO" button, the "Audio" screen can be returned to.

INFORMATION

- Other applications can be activated while listening to internet radio.
- An iPhone cannot be connected via Bluetooth® and USB connection at the same time. However, it is possible to recharge an iPhone while using Entune by connecting via USB. The system uses the connection method that was used last. Therefore, if connected via USB after Bluetooth® connection, it is necessary to reconnect the iPhone via Bluetooth®.
- Services requiring a separate contract can also be used.*
- Some parts of "Apps" can be adjusted using the switches on the steering wheel.
- If internet radio has never been listened to by activating "Apps" from the "Information" screen, the "Apps" tab will be dimmed.

*: For details, refer to <http://www.Toyota.com/entune/> or call 1-800-331-4331. Some internet radio has to be linked to your account in Toyota website before using it in the vehicle.

1. AUDIO/VIDEO SYSTEM OPERATION

7. DVD PLAYER OPERATION

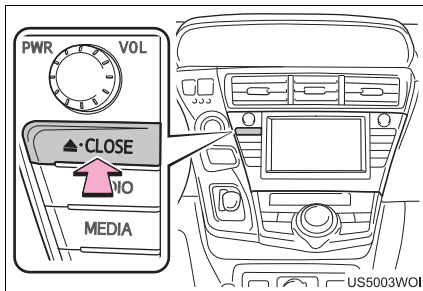
For safety reasons, the DVD video discs can only be viewed when the following conditions are met:

- (a) The vehicle is completely stopped.
- (b) The "POWER" switch is in ACCESSORY or ON mode.
- (c) The parking brake is applied.

While driving in DVD video mode, only the DVD's audio can be heard.

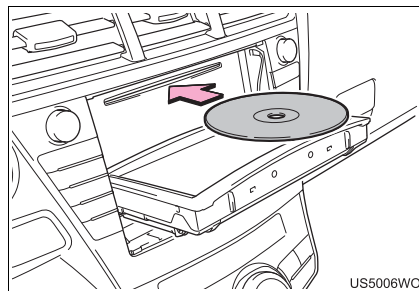
INSERTING A DISC

- 1 Press the "**▲·CLOSE**" button to slide the display down.



- The display will slide down, opening the DVD slot.

- 2 Insert a disc into the disc slot.



- After insertion, the disc is automatically loaded.

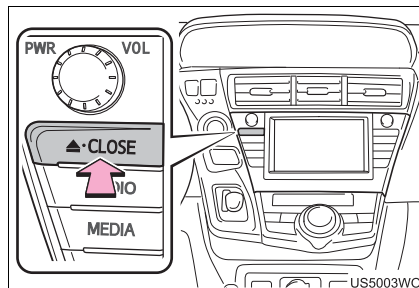
- 3 Press the "**▲·CLOSE**" button.

- The display will slide up, closing the DVD slot.

- Touching "**▲ Disc**" ejects the currently inserted disc.

EJECTING A DISC

- 1 Press the "**▲·CLOSE**" button to slide the display down.



- When the "**▲·CLOSE**" button is pressed, the disc will be automatically ejected.

- 2 Press the "**▲·CLOSE**" button to close the display.

5

AUDIO/VIDEO SYSTEM

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.

INFORMATION

- Under extremely cold conditions, the screen may react slowly or operation sound may become louder.
- If a disc is inserted with the label facing down, it cannot be played.

PLAYING A DISC

- 1 Press the **"MEDIA"** button if a disc has already been loaded in the disc slot.
- 2 Touch the **"DISC"** tab or press the **"MEDIA"** button repeatedly until the **"DISC"** tab is selected.



PLAYING AN AUDIO DISC

- 1 Touch the **"DISC"** tab.



- When CD-TEXT information exists, the name and artist of the CD currently being listened to will be displayed.

: Touch to pause the track.

: Touch to resume playing the track.

SELECTING A DESIRED TRACK

ON THE AUDIO TOP SCREEN

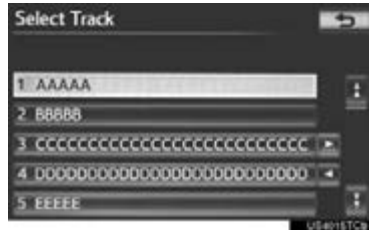


"SEEK/TRACK" button: Press the **"^"** or **"v"** button of **"SEEK/TRACK"** repeatedly until the desired track number appears on the screen. The player will start playing the selected track from the beginning.

"TUNE SCROLL" knob: Turn the knob clockwise or counterclockwise to skip to the desired track.

ON THE TRACK LIST SCREEN

- 1 Touch the track name screen button to display the CD's track list.



- 2 Touch the desired track number. The player will start playing the selected track from the beginning.

⬆️, ⬇️: Touch to move the list up or down by 5 track groups. If either of these screen buttons is touched when the top/bottom page of the list is displayed, the last/first page is displayed.

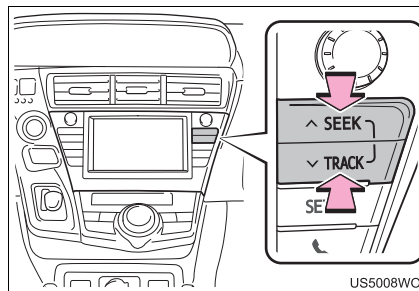
“SEEK/TRACK” button: Press the “^” or “v” button of **“SEEK/TRACK”** to scroll through the track list one by one.

“TUNE SCROLL” knob: Turn the knob clockwise or counterclockwise to quickly scroll up or down the track list. To select the desired track, press the knob.

⏪, ⏩: If ⏩ appears to the right of an item name, the complete name is too long for the screen. Touch ⏩ to scroll to the end of the name. Touch ⏪ to move to the beginning of the name.

FAST FORWARDING OR REWINDING

- 1 Press and hold the “^” or “v” button of **“SEEK/TRACK”** to fast forward or rewind the disc.



- When the button is released, the player resumes playing from that position.

REPEATING

The track currently being listened to can be repeated.

REPEATING A TRACK

- 1 Touch **“RPT”** while the track is playing.



- **“RPT”** appears on the screen. When the track is finished, the player will automatically play it again. To cancel this function, touch **“RPT”** again.

RANDOM ORDER

Tracks or albums can be automatically and randomly selected.

PLAYING THE TRACKS ON THE DISC IN RANDOM ORDER

- 1 Touch “**RAND**” while the disc is playing.



- Once “**RAND**” appears on the screen, the system selects a track randomly from the disc currently being listened to. To cancel this function, touch “**RAND**” again.

INFORMATION

- If a CD-TEXT disc is inserted, the title of the disc and track will be displayed. Up to 32 characters can be displayed.

PLAYING AN MP3/WMA DISC

- 1 Touch the “**DISC**” tab.



- The file name, folder name and artist name currently being listened to and the disc icon are displayed on the screen.

: Touch to pause the file.

: Touch to resume playing the file.

SELECTING A DESIRED FOLDER

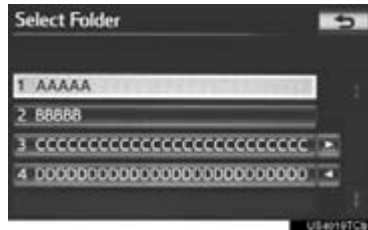
ON THE AUDIO TOP SCREEN



, : Touch to skip to the next or previous folder.

■ ON THE FOLDER LIST SCREEN

- 1 Touch the folder name screen button to display the following folder list screen.



- 2 Touch the desired folder number to display the folder's file list. From the file list, select the desired file number.

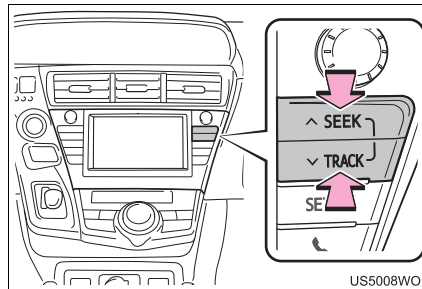
⬆️, ⬇️: Touch to move the list up or down by 5 folder groups. If either of these screen buttons is touched when the top/bottom page of the list is displayed, the last/first page is displayed.

“TUNE SCROLL” knob: Turn the knob clockwise or counterclockwise to quickly scroll up or down the folder list. To select the desired folder, press the knob.

⬅️, ➡️: If ➡️ appears to the right of an item name, the complete name is too long for the screen. Touch ➡️ to scroll to the end of the name. Touch ⬅️ to move to the beginning of the name.

■ FAST FORWARDING OR REWINDING

- 1 Press and hold the “^” or “v” button of “SEEK/TRACK” to fast forward or rewind the file.



- When the button is released, the player resumes playing from that position.

■ SELECTING A DESIRED FILE

■ ON THE AUDIO TOP SCREEN



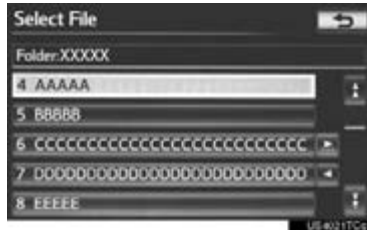
“SEEK/TRACK” button: Press the “^” or “v” button of “SEEK/TRACK” repeatedly until the desired file number appears on the screen. The player will start playing the selected file from the beginning.

“TUNE SCROLL” knob: Turn the knob clockwise or counterclockwise to skip to the desired file.

5 AUDIO/VIDEO SYSTEM

ON THE FILE LIST SCREEN

- 1 Touch the file name screen button to display the following file list screen.



- 2 Touch the desired file number. The player will start playing the selected file from the beginning.

, : Touch to move the list up or down by 5 file groups. If either of these screen buttons is touched when the top/bottom page of the list is displayed, the last/first page is displayed.

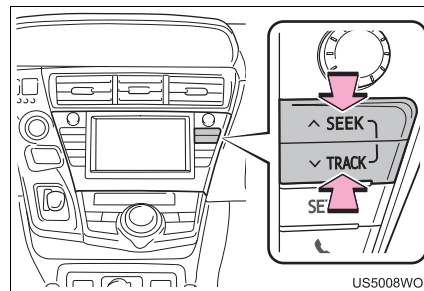
“**SEEK/TRACK**” button: Press the “^” or “v” button of “**SEEK/TRACK**” to scroll through the file list one by one.

“**TUNE SCROLL**” knob: Turn the knob clockwise or counterclockwise to quickly scroll up or down the file list. To select the desired file, press the knob.

, : If appears to the right of an item name, the complete name is too long for the screen. Touch to scroll to the end of the name. Touch to move to the beginning of the name.

FAST FORWARDING OR REWINDING

- 1 Press and hold the “^” or “v” button of “**SEEK/TRACK**” to fast forward or rewind the file.



- When the button is released, the player resumes playing from that position.

REPEATING

The file or folder currently being listened to can be repeated.

REPEATING A FILE

- 1 Touch “**RPT**” while the file is playing.



- Each time “**RPT**” is touched, the mode changes as follows:
 - ▶ When “**RAND**” is off
 - File Repeat → Folder Repeat → Off
 - ▶ When “**RAND**” is on
 - File Repeat → Off
- “**RPT**” appears on the screen. When the file is finished, the player will automatically play it again. To cancel this function, touch “**RPT**” repeatedly until the repeat mode turns off.

REPEATING A FOLDER

- 1 Touch “**RPT**” repeatedly until “**FLD.RPT**” appears on the screen.
 - When the folder is finished, the player will automatically go back to the beginning of the folder and play it again. To cancel this function, touch “**RPT**” again.

RANDOM ORDER

Files or folders can be automatically and randomly selected.

PLAYING FILES FROM ONE FOLDER IN RANDOM ORDER

- 1 Touch “**RAND**” while the disc is playing.



- Each time “**RAND**” is touched, the mode changes as follows:
 - Random (1 Folder Random) → Folder Random (1 Disc Random) → Off
- Once “**RAND**” appears on the screen, the system selects a file randomly from the folder currently being listened to. To cancel this function, touch “**RAND**” repeatedly until the random mode turns off.

PLAYING THE FILES IN ALL THE FOLDERS ON THE DISC IN RANDOM ORDER

- 1 Touch “**RAND**” repeatedly until “**FLD.RAND**” appears on the screen.
 - Once “**FLD.RAND**” appears on the screen, the system selects a file randomly from all of the existing folders. To cancel this function, touch “**RAND**” again.

INFORMATION

- When a file is skipped or the system is inoperative, touch “**RAND**” to reset.

OPERATING A DVD DISC

The playback condition of some DVD discs may be determined by the DVD software producer. This DVD player plays a disc as the software producer intended. As such some functions may not work properly. Be sure to read the instruction manual that comes with the individual DVD disc. For detailed information about DVD video discs, see “DVD PLAYER AND DVD VIDEO DISC INFORMATION” on page 231.

PRECAUTIONS ON DVD VIDEO DISC

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

When playback of a disc is completed:

If an audio CD or MP3/WMA disc is playing, the first track or file starts.

If a DVD video is playing, playback will stop or the menu screen will be displayed.

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

CAUTION

- Conversational speech on some DVDs is recorded at a low volume to emphasize the impact of sound effects. If you adjust the volume assuming that the conversations represent the maximum volume level that the DVD will play, you may be startled by louder sound effects or when you change to a different audio source. The louder sounds may have a significant impact on the human body or pose a driving hazard. Keep this in mind when you adjust the volume.

PLAYING A DVD DISC


- 1 Press the **"MEDIA"** button.
- 2 Touch the **"DISC"** tab or press the **"MEDIA"** button repeatedly until the **"DISC"** tab is selected.




- Touch **"Options"** on the "DVD" screen, then touch **"Wide"** on the "DVD Options" screen. The screen mode can be changed.
- If **"Full Screen"** is touched when the vehicle is completely stopped and the parking brake is applied, the video screen returns.

DISPLAYING DVD CONTROLS









- If  is touched, while watching a DVD, the DVD controls will appear.

INFORMATION

- If  appears on the screen when a control is touched, the operation relevant to the control is not permitted.





DESCRIPTION OF DVD VIDEO CONTROLS

Screen button	Function
"Top Menu", "Menu"	Touch to display the menu screen for DVD video.
	The menu control key appears on the screen. (See page 221.)
	Touch to pause the video screen.
	Touch to rewind during playback.
	Touch to stop the video screen.
	Touch to resume normal play during pause.
	Touch to fast forward during playback and forward frame by frame during pause.


CHANGING A CHAPTER

- 1 Press and hold the "▲" or "▼" button of "SEEK/TRACK" or turn the "TUNE SCROLL" knob to change the chapter.

SELECTING A MENU ITEM

- 1 Select the menu item using , ,  or  and touch "Enter". The player starts playing the disc from the start of the selected item.



- When  is touched, the previous screen is displayed.

INFORMATION

- According to the DVD disc, some menu items can be selected directly. (For details, see the manual that comes with the DVD disc provided separately.)

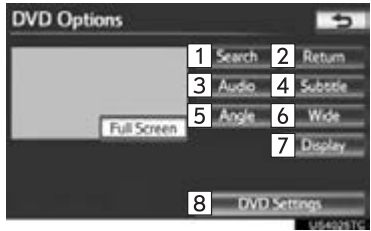
1. AUDIO/VIDEO SYSTEM OPERATION

DVD OPTIONS

- 1 Press the **“MEDIA”** button.
- 2 Touch the **“DISC”** tab or press the **“MEDIA”** button repeatedly until the **“DISC”** tab is selected.
- 3 Touch **“Options”**.



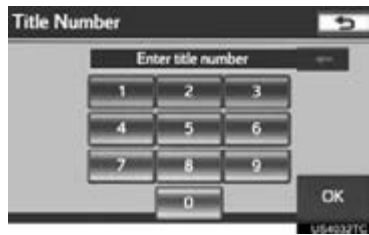
- 4 This screen is displayed.





No.	Function
1	Touch to display the title search screen. (See page 223.)
2	Touch to display the predetermined scene on the screen and start playing.
3	Touch to display the audio selection screen. (See page 223.)
4	Touch to display the subtitle selection screen. (See page 223.)
5	Touch to display the angle selection screen. (See page 223.)
6	Touch to display the screen mode screen. (See page 196.)
7	Touch to display the image quality adjustment screen. (See page 224.)
8	Touch to display the initial setup screen. (See page 225.)

SEARCHING BY TITLE

- 1 Touch **“Search”** on the “DVD Options” screen.
- 2 Enter the title number and touch **“OK”**.




- The player starts playing video for that title number.
- If the wrong numbers are entered, touch  to delete the numbers.
- When  is touched, the previous screen is displayed.

CHANGING THE AUDIO LANGUAGE

- 1 Touch **“Audio”** on the “DVD Options” screen.
- 2 Each time **“Change”** is touched, the audio language is changed.




- The languages available are restricted to those available on the DVD disc.
- When  is touched, the previous screen is displayed.

CHANGING THE SUBTITLE LANGUAGE

- 1 Touch **“Subtitle”** on the “DVD Options” screen.
- 2 Each time **“Change”** is touched, the language the subtitles are displayed in is changed.



- The languages available are restricted to those available on the DVD disc.
- When **“Hide”** is touched, the subtitles can be hidden.
- When  is touched, the previous screen is displayed.


CHANGING THE ANGLE

The angle can be selected for discs that are multi-angle compatible when the angle mark appears on the screen.

- 1 Touch **“Angle”** on the “DVD Options” screen.
- 2 Each time **“Change”** is touched, the angle is changed.

5 AUDIO/VIDEO SYSTEM



- The angles available are restricted to those available on the DVD disc.
- When  is touched, the previous screen is displayed.

AUDIO SCREEN ADJUSTMENT

The brightness, contrast, color and tone of the screen can be adjusted. In addition, the display can be turned off and the screen can be changed to either day or night mode.

■ CONTRAST, BRIGHTNESS, COLOR AND TONE ADJUSTMENT

- 1 Touch **“Display”** on the “DVD Options” screen.
- 2 Touch “<” or “>” to display the desired item to be adjusted.



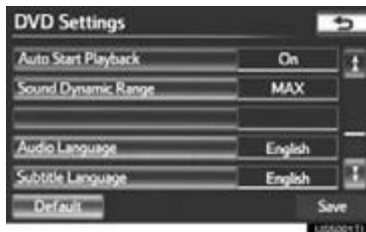
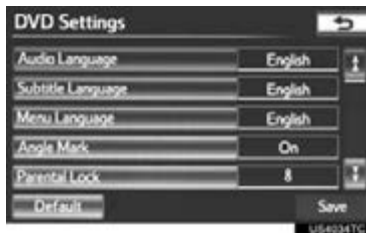
Screen button	Function
“Contrast” “+”	Touch to strengthen the contrast of the screen.
“Contrast” “-”	Touch to weaken the contrast of the screen.
“Brightness” “+”	Touch to brighten the screen.
“Brightness” “-”	Touch to darken the screen.
“Color” “R”	Touch to strengthen the red color of the screen.
“Color” “G”	Touch to strengthen the green color of the screen.
“Tone” “+”	Touch to strengthen the tone of the screen.
“Tone” “-”	Touch to weaken the tone of the screen.

- 3 After adjusting the screen, touch **“OK”**.

- The screen goes off when **“Screen Off”** is touched. To turn the screen back on, press any button. The selected screen appears.

DVD SETTINGS


- 1 Touch **“DVD Settings”** on the “DVD Options” screen.
- 2 Touch the items to be set.



- 3 After the initial setting has been changed, touch **“Save”**.
 - This screen will close, and the system will return to the previous screen.
 - When **“Default”** is touched, all menus are initialized.


AUDIO LANGUAGE

The audio language can be changed.

- 1 Touch **“Audio Language”** on the “DVD Settings” screen.
- 2 Touch the desired language to be heard on the “Audio Language” screen.
 - If the desired language to be heard cannot be found on this screen, touch **“Other”** and enter a language code. For entry of a language code, see “ENTER AUDIO/SUBTITLE/MENU LANGUAGE CODE” on page 227.
 - To return to the “DVD Settings” screen, touch .
- 3 Touch **“Save”** on the “DVD Settings” screen.


SUBTITLE LANGUAGE

The subtitle language can be changed.

- 1 Touch **“Subtitle Language”** on the “DVD Settings” screen.
- 2 Touch the desired language to be read on the “Subtitle Language” screen.
 - If the desired language to be read cannot be found on this screen, touch **“Other”** and enter a language code. For entry of a language code, see “ENTER AUDIO/SUBTITLE/MENU LANGUAGE CODE” on page 227.
 - To return to the “DVD Settings” screen, touch .
- 3 Touch **“Save”** on the “DVD Settings” screen.

■ MENU LANGUAGE

The language on the DVD video menu can be changed.

- 1 Touch **“Menu Language”** on the “DVD Settings” screen.
- 2 Touch the desired language to be read on the “Menu Language” screen.
 - If the desired language to be read cannot be found on this screen, touch **“Other”** and enter a language code. For entry of a language code, see “ENTER AUDIO/SUBTITLE/MENU LANGUAGE CODE” on page 227.
 - To return to the “DVD Settings” screen, touch .
- 3 Touch **“Save”** on the “DVD Settings” screen.




■ ANGLE MARK

The multi-angle mark can be turned on or off on the screen while discs that are multi-angle compatible are being played.

- 1 Touch **“Angle Mark”** on the “DVD Settings” screen.
- 2 Touch **“On”** or **“Off”**.
- 3 Touch **“Save”** on the “DVD Settings” screen.

■ PARENTAL LOCK

The level of viewer restrictions can be changed.

- 1 Touch **“Parental Lock”** on the “DVD Settings” screen.
- 2 Enter the 4-digit personal code on the “Key Code” screen.
 - If the wrong numbers are entered, touch  to delete the numbers.
 - To return to the “DVD Settings” screen, touch .
- 3 Touch a parental level (**1-8**) on the “Select Restriction Level” screen.
 - To return to the “DVD Settings” screen, touch .
- 4 Touch **“Save”** on the “DVD Settings” screen.

■ AUTO START PLAYBACK

Discs that are inserted while the vehicle is in motion will automatically start playing. Certain discs may not play.

- 1 Touch **“Auto Start Playback”** on the “DVD Settings” screen.
- 2 Touch **“On”** or **“Off”**.
- 3 Touch **“Save”** on the “DVD Settings” screen.

SOUND DYNAMIC RANGE

The difference between the lowest volume and the highest volume can be adjusted.



- 1 Touch **"Sound Dynamic Range"** on the "DVD Settings" screen.
- 2 Touch **"MAX"**, **"STD"** or **"MIN"**.
- 3 Touch **"Save"** on the "DVD Settings" screen.

**ENTER AUDIO/SUBTITLE/
MENU LANGUAGE CODE**

If **"Other"** on the "Audio Language" screen, "Subtitle Language" screen or "Menu Language" screen is touched, the desired language to be heard or read can be selected by entering a language code.

- 1 Enter the 4-digit language code.



- If the wrong numbers are entered, touch  to delete the numbers.
 - To return to the "DVD Settings" screen, touch .
- 2 Touch **"OK"**.
 - 3 Touch **"Save"** on the "DVD Settings" screen.

5

AUDIO/VIDEO SYSTEM

1. AUDIO/VIDEO SYSTEM OPERATION

Code	Language	Code	Language
0514	English	0301	Catalan
1001	Japanese	0315	Corsican
0618	French	0319	Czech
0405	German	0325	Welsh
0920	Italian	0401	Danish
0519	Spanish	0426	Bhutani
2608	Chinese	0515	Esperanto
1412	Dutch	0520	Estonian
1620	Portuguese	0521	Basque
1922	Swedish	0601	Persian
1821	Russian	0609	Finnish
1115	Korean	0610	Fiji
0512	Greek	0615	Faroese
0101	Afar	0625	Frisian
0102	Abkhazian	0701	Irish
0106	Afrikaans	0704	Scottish-Gaelic
0113	Amharic	0712	Galician
0118	Arabic	0714	Guarani
0119	Assamese	0721	Gujarati
0125	Aymara	0801	Hausa
0126	Azerbaijani	0809	Hindi
0201	Bashkir	0818	Croatian
0205	Byelorussian	0821	Hungarian
0207	Bulgarian	0825	Armenian
0208	Bihari	0901	Interlingua
0209	Bislama	0905	Interlingue
0214	Bengali, Bangla	0911	Inupiak
0215	Tibetan	0914	Indonesian
0218	Breton	0919	Icelandic

1. AUDIO/VIDEO SYSTEM OPERATION

Code	Language	Code	Language
0923	Hebrew	1503	Occitan
1009	Yiddish	1513	(Afan) Oromo
1023	Javanese	1518	Oriya
1101	Georgian	1601	Panjabi
1111	Kazakh	1612	Polish
1112	Greenlandic	1619	Pashto, Pushto
1113	Cambodian	1721	Quechua
1114	Kannada	1813	Rhaeto-Romance
1119	Kashmiri	1814	Kirundi
1121	Kurdish	1815	Romanian
1125	Kirghiz	1823	Kinyarwanda
1201	Latin	1901	Sanskrit
1214	Lingala	1904	Sindhi
1215	Laotian	1907	Sango
1220	Lithuanian	1908	Serbo-Croatian
1222	Latvian, Lettish	1909	Sinhalese
1307	Malagasy	1911	Slovak
1309	Maori	1912	Slovenian
1311	Macedonian	1913	Samoan
1312	Malayalam	1914	Shona
1314	Mongolian	1915	Somali
1315	Moldavian	1917	Albanian
1318	Marathi	1918	Serbian
1319	Malay	1919	Siswati
1320	Maltese	1920	Sesotho
1325	Burmese	1921	Sundanese
1401	Nauru	1923	Swahili
1405	Nepali	2001	Tamil
1415	Norwegian	2005	Telugu

5

AUDIO/VIDEO SYSTEM

1. AUDIO/VIDEO SYSTEM OPERATION

Code	Language
2007	Tajik
2008	Thai
2009	Tigrinya
2011	Turkmen
2012	Tagalog
2014	Setswana
2015	Tongan
2018	Turkish
2019	Tsonga
2020	Tatar
2023	Twi
2111	Ukrainian
2118	Urdu
2126	Uzbek
2209	Vietnamese
2215	Volapük
2315	Wolof
2408	Xhosa
2515	Yoruba
2621	Zulu

IF THE PLAYER MALFUNCTIONS

If the player or another unit equipped with the player malfunctions, the audio/video system will display a message. These are described below.

If “Check DISC” appears on the screen: It indicates that the disc is dirty, damaged, or it was inserted upside down. Clean the disc or insert it correctly. If a disc which is not playable is inserted, “Check DISC” will also appear on the screen. For appropriate discs for the player, see “AUDIO/VIDEO SYSTEM OPERATING HINTS” on page 254.

If “Region code error” appears on the screen: It indicates that the DVD region code is not set properly.

If the malfunction is not rectified: Take your vehicle to your Toyota dealer.

INFORMATION

- If an MP3/WMA disc contains CD-DA files only, the CD-DA files can be played. If an MP3/WMA disc contains CD-DA files and files other than CD-DA files, only MP3/WMA files can be played.








DVD PLAYER AND DVD VIDEO DISC INFORMATION

DVD VIDEO DISCS

This DVD player conforms to NTSC/PAL color TV formats. DVD video discs conforming to another format such as SECAM cannot be used.

Region codes: Some DVD video discs have a region code indicating which countries the DVD video disc can be played in on this DVD player. If the DVD video disc is not labeled as "ALL" or "1", you cannot use it on this DVD player. If you attempt to play an inappropriate DVD video disc on this player, "Region code error" appears on the screen. Even if the DVD video disc does not have a region code, there are cases when it cannot be used.

MARKS SHOWN ON DVD VIDEO DISCS

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

DVD VIDEO DISC GLOSSARY

DVD video discs: Digital Versatile Disc that holds video. DVD video discs have adopted "MPEG2", one of the world standards of digital compression technologies. The picture data is compressed by 1/40 on average and stored. Variable rate encoded technology in which the volume of data assigned to the picture is changed depending on the picture format has also been adopted. Audio data is stored using PCM and Dolby Digital, which enables higher quality of sound. Furthermore, multi-angle and multi-language features will also help users enjoy the more advanced technology of DVD video.

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

- Level 1: DVD video discs for children can be played.
- Level 2 - 7: DVD video discs for children and G-rated movie can be played.
- Level 8: All types of the DVD video discs can be played.

Multi-angle feature: The same scene can be enjoyed from different angles.

Multi-language feature: The subtitle and audio language can be selected.

Region codes: The region codes are provided on DVD players and DVD discs. If the DVD video disc does not have the same region code as the DVD player, you cannot play the disc on the DVD player. For region codes, see page 231.

Audio: This DVD player can play liner PCM, Dolby Digital and MPEG audio format DVDs. Other decoded types cannot be played.

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

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

Chapter: A unit smaller than that of title. A title comprises of several chapters.

- Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.
- This Item Incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Reverse engineering and disassembly are prohibited.

1. AUDIO/VIDEO SYSTEM OPERATION

8. USB MEMORY OPERATION

Connecting a USB memory enables users to enjoy music from the vehicle speakers.

⚠ CAUTION

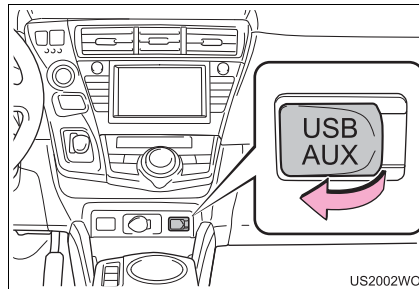
- Do not operate the player's controls or connect the USB memory while driving.

⚠ NOTICE

- Do not leave your portable player in the car. In particular, high temperatures inside the vehicle may damage the portable player.
- Do not push down on or apply unnecessary pressure to the portable player while it is connected as this may damage the portable player or its terminal.
- Do not insert foreign objects into the port as this may damage the portable player or its terminal.

CONNECTING A USB MEMORY

- 1 Open the cover and connect a USB memory.



- Turn on the power of the USB memory if it is not turned on.

- 2 Press the "MEDIA" button.

5

AUDIO/VIDEO SYSTEM

PLAYING A USB MEMORY

PLAYING AND PAUSING A USB MEMORY

- 1 If a USB memory has already been connected, touch the “**USB**” tab to select USB mode. Pressing the “**MEDIA**” button repeatedly can also select the tab.

▶ Tag mode



▶ Folder mode



INFORMATION

- If tag information exists, the file/folder names will be changed to track/album names.

▶: Touch to start playing the music.

II: Touch to pause the music.

- To start playing the music again, touch ▶.

INFORMATION

- When the USB memory is connected and the audio source is changed to USB memory mode, the USB memory will start playing the first file in the first folder. If the same device is removed and reinserted (and the contents have not been changed), the USB memory will resume playing from the same point it was last used.
- Depending on the USB memory that is connected to the system, certain functions may not be available.

SELECTING A DESIRED FOLDER/ALBUM

ON THE USB TOP SCREEN



▶, ◀: Touch to skip to the next or previous folder/album.

SELECTING A DESIRED FOLDER, ARTIST OR ALBUM

- 1 Touch the folder/album name screen button.



- 2 Touch the desired tab and select the desired folder, artist or album.



- Character screen buttons, “ABC”, “DEF” etc., allow a direct jump to list entries that begin with the same letter as the character button. Each time the same character screen button is touched, the list starting with the subsequent character is displayed.

⬆️, ⬇️: Touch to move the list up or down by 5 folder/artist/album groups. If either of these screen buttons is touched when the top/bottom page of the list is displayed, the last/first page is displayed.

⬅️, ➡️: If ➡️ appears to the right of an item name, the complete name is too long for the screen. Touch ➡️ to scroll to the end of the name. Touch ⬅️ to move to the beginning of the name.

SELECTING A DESIRED FILE/ TRACK

ON THE USB TOP SCREEN

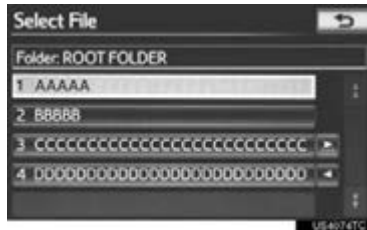


“SEEK/TRACK” button: Press the “^” or “v” button of “SEEK/TRACK” repeatedly until the desired file/track number appears on the screen. The player will start playing the selected file/track from the beginning.

“TUNE SCROLL” knob: Turn the knob clockwise or counterclockwise to skip to the desired file/track.

ON THE FILE/TRACK LIST SCREEN

- 1 Touch the file/track name screen button to display the following file/track list screen.



- 2 Touch the desired file/track number. The player will start playing the selected file/track from the beginning.

, : Touch to move the list up or down by 5 file/track groups. If either of these screen buttons is touched when the top/bottom page of the list is displayed, the last/first page is displayed.

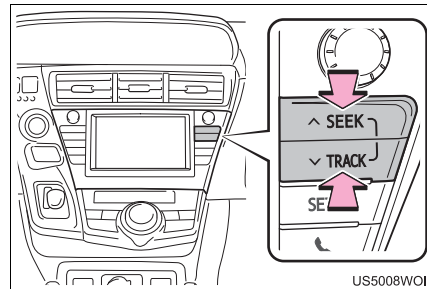
“SEEK/TRACK” button: Press the “^” or “v” button of **“SEEK/TRACK”** to scroll through the file/track list one by one.

“TUNE SCROLL” knob: Turn the knob clockwise or counterclockwise to quickly scroll up or down the file/track list. To select the desired file/track, press the knob.

, : If appears to the right of an item name, the complete name is too long for the screen. Touch to scroll to the end of the name. Touch to move to the beginning of the name.

FAST FORWARDING OR REWINDING

- 1 Press and hold the “^” or “v” button of **“SEEK/TRACK”** to fast forward or rewind the file/track.



- When the button is released, the player resumes playing from that position.

REPEATING

The file or folder currently being listened to can be repeated.

REPEATING A FILE/TRACK

- 1 Touch **"RPT"** while the file or track is playing.



- Each time **"RPT"** is touched, the mode changes as follows:
 - ▶ When **"RAND"** is off
 - File/Track Repeat → Folder/Album Repeat → Off
 - ▶ When **"RAND"** is on
 - File/Track Repeat → Off
- **"RPT"** appears on the screen. When the file/track is finished, the player will automatically play it again. To cancel this function, touch **"RPT"** repeatedly until the repeat mode turns off.

REPEATING A FOLDER/ALBUM

- 1 Touch **"RPT"** repeatedly until **"FLD.RPT"** appears on the screen.
- When the folder/album is finished, the player will automatically go back to the beginning of the folder/album and play it again. To cancel this function, touch **"RPT"** again.

RANDOM ORDER

Files or folders can be automatically and randomly selected.

PLAYING FILES/TRACKS IN RANDOM ORDER

- 1 Touch **"RAND"** while the file or track is playing.



- Each time **"RAND"** is touched, the mode changes as follows:
 - Random (1 Folder/Album Random) → Folder/Album Random (All Folder/Album Random) → Off
- Once **"RAND"** appears on the screen, the system selects a file/track randomly from the folder/album currently being listened to. To cancel this function, touch **"RAND"** repeatedly until the random mode turns off.

ALL FOLDER/ALBUM RANDOM PLAY

- 1 Touch **"RAND"** repeatedly until **"FLD.RAND"** appears on the screen.
- Once **"FLD.RAND"**/**"ALB.RAND"** appears on the screen, the system selects a file randomly from all of the existing folders or albums. To cancel this function, touch **"RAND"** again.

1. AUDIO/VIDEO SYSTEM OPERATION

9. iPod OPERATION

Connecting an iPod enables users to enjoy music from the vehicle speakers.

CAUTION

- Do not operate the player's controls or connect the iPod while driving.

NOTICE

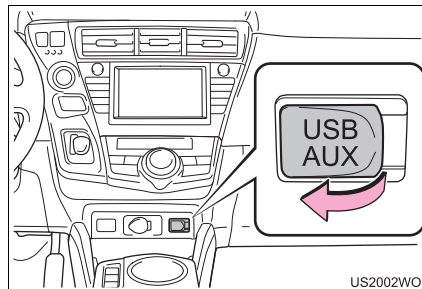
- Do not leave your portable player in the car. In particular, high temperatures inside the vehicle may damage the portable player.
- Do not push down on or apply unnecessary pressure to the portable player while it is connected as this may damage the portable player or its terminal.
- Do not insert foreign objects into the port as this may damage the portable player or its terminal.

INFORMATION

- When an iPod is connected using a genuine iPod cable, the iPod starts charging its battery.

CONNECTING iPod

- 1 Open the cover and connect iPod using an iPod cable.




- Turn on the power of the iPod if it is not turned on.
- 2 Press the "MEDIA" button.


PLAYING iPod

PLAYING AND PAUSING iPod



- 1 If an iPod has already been connected, touch the "iPod" tab to display the screen. Pressing the "MEDIA" button repeatedly can also select the tab.

: Touch to start playing the music.

: Touch to pause the music.

- To start playing the music again, touch

.

INFORMATION

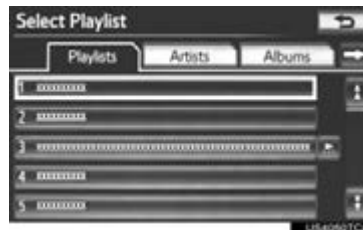
- When the iPod connected to the system includes iPod video, the system can only output the sound by touching **“Video”** on the “iPod” screen.
- Depending on the iPod, the video sound may not be able to be heard.
- Depending on the iPod and the songs in the iPod, iPod cover art may be displayed. This function can be changed to **“On”** or **“Off”**. See **“iPod SETTINGS”** on page 265. It may take time to display iPod cover art, and the iPod may not be operated while the cover art display is in process. Only the iPod cover art that is saved in JPEG format can be displayed.
- When an iPod is connected and the audio source is changed to iPod mode, the iPod will resume playing from the same point it was last used.
- Depending on the iPod that is connected to the system, certain functions may not be available.

SELECTING A PLAY MODE

- 1 Touch **“Browse”**.



- 2 Select the desired play mode.



SELECTING A DESIRED TRACK

ON THE iPod TOP SCREEN



“SEEK/TRACK” button: Press the **“^”** or **“v”** button of **“SEEK/TRACK”** repeatedly until the desired track number appears on the screen. The player will start playing the selected track from the beginning.

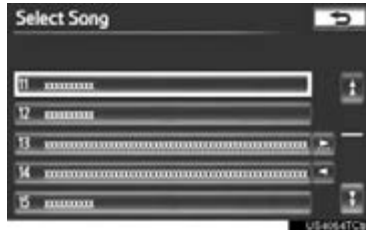
“TUNE SCROLL” knob: Turn the knob clockwise or counterclockwise to skip to the desired track.

5

AUDIO/VIDEO SYSTEM

ON THE TRACK LIST SCREEN

- 1 Touch the track name screen button to display the following track list screen.



- 2 Touch the desired track number. The player will start playing the selected track from the beginning.

, : Touch to move the list up or down by 5 track groups. If either of these screen buttons is touched when the top/bottom page of the list is displayed, the last/first page is displayed.

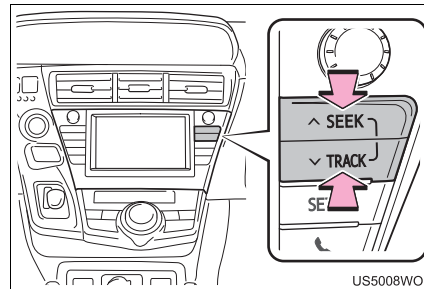
“SEEK/TRACK” button: Press the “^” or “v” button of **“SEEK/TRACK”** to scroll through the track list one by one.

“TUNE SCROLL” knob: Turn the knob clockwise or counterclockwise to quickly scroll up or down the track list. To select the desired track, press the knob.

, : If appears to the right of an item name, the complete name is too long for the screen. Touch to scroll to the end of the name. Touch to move to the beginning of the name.

FAST FORWARDING OR REWINDING

- 1 Press and hold the “^” or “v” button of **“SEEK/TRACK”** to fast forward or rewind the player.

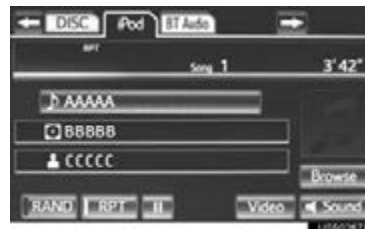


- When the button is released, the player resumes playing from that position.

REPEATING

The track currently being listened to can be repeated.

- 1 Touch **“RPT”** while the track is playing.



- **“RPT”** appears on the screen. When the track is finished, the player will automatically play it again. To cancel this function, touch **“RPT”** again.

RANDOM ORDER

Tracks or albums can be automatically and randomly selected.

PLAYING TRACKS IN RANDOM ORDER

- 1 Touch **"RAND"** while the track is playing.



- Each time **"RAND"** is touched, the mode changes as follows:
 - Track Shuffle → Album Shuffle → Off
- Once **"RAND"** appears on the screen, the system selects a track randomly from all of the existing albums on the iPod. To cancel this function, touch **"RAND"** twice.

PLAYING ALBUMS IN RANDOM ORDER

- 1 Touch **"RAND"** repeatedly until **"ALB.RAND"** appears on the screen.
- Once **"ALB.RAND"** appears on the screen, the system selects an album randomly from all of the existing albums on the iPod. To cancel this function, touch **"RAND"** again.

1. AUDIO/VIDEO SYSTEM OPERATION

10. Bluetooth® AUDIO OPERATION

The Bluetooth® audio system enables users to enjoy listening to music that is played on a portable player on the vehicle speakers 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.



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.
- Your audio unit is fitted with Bluetooth® antennas. People with implanted pacemakers or cardiac defibrillators should maintain a reasonable distance between themselves and the Bluetooth® antennas. The radio waves may affect the operation of such devices.
- Before using Bluetooth® devices, users of any electrical medical device other than implanted pacemakers and implanted cardiac defibrillators should consult the manufacturer of the device for information about its operation under the influence of radio waves. Radio waves could have unexpected effects on the operation of such medical devices.

NOTICE

- Do not leave your portable player in the vehicle. 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 to connect the phone when Bluetooth® audio is being played.
- Portable players must correspond to the following specifications in order to be connected to the Bluetooth® audio system. However, some functions may be limited depending on the type of portable player. Also, the different screen is displayed depending on which portable player is connecting.
 - Bluetooth® Specification Ver.1.1 or higher (Recommended: Ver.2.1 + EDR or higher)
 - Profile A2DP (Advanced Audio Distribution Profile) Ver.1.0 or higher (Recommended: Ver.1.2 or higher) AVRCP (Audio/Video Remote Control Profile) Ver.1.0 or higher (Recommended: Ver.1.4 or higher)
- Refer to <http://www.Toyota.com/Bluetooth/> to find approved Bluetooth® devices for this system.



1 The quality of the Bluetooth® connection is indicated as follows:

- : An excellent connection to Bluetooth®.
- : Indicates a bad connection to Bluetooth®, resulting in possible deterioration of audio quality.
- : No connection to Bluetooth®.

2 Indicates the amount of battery charge left.



5 AUDIO/VIDEO SYSTEM

INFORMATION

- Remaining charge is not displayed while the Bluetooth® device is connecting.
- The amount of charge left does not always correspond correctly with your portable player.
- This system does not have a charging function.
- An antenna for Bluetooth® connection is built into the instrument panel. The condition of the Bluetooth® connection may not be good and the system may not function when using a Bluetooth® portable player in the following conditions:
 - The portable player is obstructed by certain objects (behind a seat or in the glove box or console box).
 - The portable player touches or is covered with metal materials.
- Leave the Bluetooth® portable player in a place where the condition of Bluetooth® connection is good.

● Portable player information is registered when the portable player is connected to the Bluetooth® audio system. When selling or disposing of the vehicle, remove the Bluetooth® audio information from the system. (See “DELETING A Bluetooth® DEVICE” on page 179.)

► U.S.A.

● **FCC ID : HYQDNNS059**
Type : DNNS059
IC : 1551A-DNNS059 Canada 310

● This device complies with part 15 of the FCC Rules. 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

● **FCC WARNING:** 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 environment 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 ankles).

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

► Canada

CAUTION

● NOTE

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

L'utilisation de ce dispositif est autorisée seulement aux deux conditions suivantes : (1) il ne doit pas produire de brouillage, et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

- This equipment complies with IC radiation exposure limits set forth for uncontrolled environment and meets RSS-102 of the IC radio frequency (RF) Exposure rules. 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 ankles).

Cet équipement se conforme aux limites d'exposition aux radiations établies par Industrie Canada pour un environnement non contrôlé ainsi qu'aux directives d'exposition aux fréquences radioélectriques (RF) émises par Industrie Canada dans la norme CNR-102. Cet équipement émet un niveau d'énergie RF faible à un point tel qu'il se conforme sans devoir effectuer d'évaluation d'exposition maximum admissible (MPE). Lorsque l'équipement est utilisé, il est toutefois souhaitable de laisser au moins 20 cm entre l'antenne et le corps (à l'exception des extrémités : mains, poignets, pieds et chevilles).

CAUTION

- Co-location: This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.
Co-implantation: cet émetteur ne doit pas être co-implanté ou actionné en même temps qu'aucune autre antenne ou émetteur.

CONNECTING A Bluetooth® AUDIO PLAYER

To use the Bluetooth® audio system, it is necessary to register a portable player with the system. Once the portable player has been registered, it is possible to listen to the music.

Once the portable player has been registered, it is possible to listen to music through the navigation system. (See "REGISTERING A Bluetooth® DEVICE" on page 178.)

INFORMATION

- For operating the portable player, see the instruction manual that comes with it.

WHEN "Bluetooth* Power" IS ON

- The portable player will be automatically connected under the following conditions:
 - The "POWER" switch is in either ACCESSORY or ON mode.
 - When "Bluetooth* Power" is switched from off to on.
 - When the portable player is disconnected for some reason.

5

AUDIO/VIDEO SYSTEM

WHEN “Bluetooth* Power” IS OFF

Manually connect the portable player in accordance with the following procedure.

- 1 Touch “Connect”.



- 2 Touch the desired portable player.



- 3 When the connection is completed, this screen is displayed. It is now possible to use the portable player.



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

INFORMATION

- Touching “Connect Portable Player” on the “Bluetooth*” screen also connects a Bluetooth® audio player. (See page 183.)
- When none of the selectable portable players have been registered, a screen confirming registration is displayed. Registration method is the same as phone registration. (See page 137.)
- When the currently connected portable player is selected, a screen confirming the selected player’s disconnection is displayed. (See page 184.)
- If connection fails once, a changing connection method confirmation screen is displayed. If connection fails 2 or more times, a message will be displayed. When this message is displayed, try again.

RECONNECTING THE PORTABLE PLAYER

If the portable player is disconnected due to poor reception from the Bluetooth® network when the “POWER” switch is in ACCESSORY or ON mode, the system automatically reconnects the portable player.

- If the Bluetooth® device is disconnected on purpose, such as it was turned off, this does not happen. Reconnect the portable player manually.

PLAYING Bluetooth® AUDIO

PLAYING AND PAUSING Bluetooth® AUDIO

- 1 If a Bluetooth® audio player has already been connected, touch the “**BT Audio**” tab to display the screen. Pressing the “**MEDIA**” button repeatedly can also select the tab.



: Touch to start playing the music.

: Touch to pause the music.

- To start playing the music again, touch .
- Depending on the portable player that is connected to the system, the music may start playing when touching while it is paused. Conversely, the music may pause when touching while it is playing.

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

SELECTING A DESIRED TRACK/FOLDER/ALBUM

ON THE AUDIO TOP SCREEN



, : Touch to skip to the next or previous album.

ON THE PLAYLIST SCREEN

- 1 Touch the album name screen button to display the following playlist screen.



- 2 Touch the desired screen button.



- If the folder name screen button is touched, the track list screen is displayed.

- 3 Touch the desired track name screen button.








5

AUDIO/VIDEO SYSTEM

, : Touch to move the list up or down by 5 track/folder groups. If either of these screen buttons is touched when the top/bottom page of the list is displayed, the last/first page is displayed.

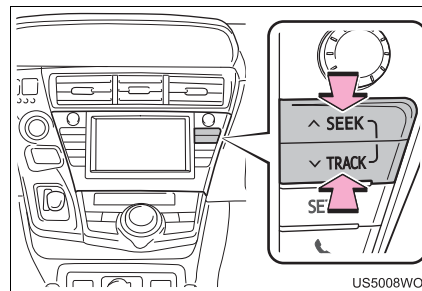
“SEEK/TRACK” button: Press the “^” or “v” button of **“SEEK/TRACK”** to scroll through the track list one by one.

“TUNE SCROLL” knob: Turn the knob clockwise or counterclockwise to quickly scroll up or down the track/folder list. To select the desired track/folder, press the knob.

, : If  appears to the right of an item name, the complete name is too long for the screen. Touch  to scroll to the end of the name. Touch  to move to the beginning of the name.

FAST FORWARDING OR REWINDING

- 1 Press and hold the “^” or “v” button of **“SEEK/TRACK”** to fast forward or rewind the song.



- When the button is released, the player resumes playing from that position.

INFORMATION

- Depending on the portable player that is connected to the system, certain functions may not be available.
- Some titles may not be displayed depending on the type of portable player.

SELECTING A DESIRED TRACK

ON THE AUDIO TOP SCREEN

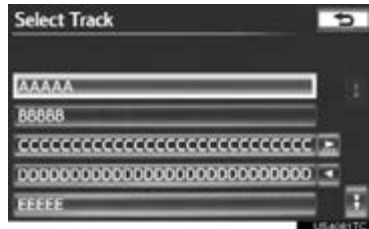


“SEEK/TRACK” button: Press the “^” or “v” button of **“SEEK/TRACK”** repeatedly until the desired track number appears on the screen. The player will start playing the selected track from the beginning.

“TUNE SCROLL” knob: Turn the knob clockwise or counterclockwise to skip to the desired track.

ON THE TRACK LIST SCREEN

1 Touch the track name screen button to display the following track list screen.



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

, : Touch to move the list up or down by 5 track groups. If either of these screen buttons is touched when the top/bottom page of the list is displayed, the last/first page is displayed.

“SEEK/TRACK” button: Press the “^” or “v” button of **“SEEK/TRACK”** to scroll through the track list one by one.

“TUNE SCROLL” knob: Turn the knob clockwise or counterclockwise to quickly scroll up or down the track list. To select the desired track, press the knob.

, : If appears to the right of an item name, the complete name is too long for the screen. Touch to scroll to the end of the name. Touch to move to the beginning of the name.

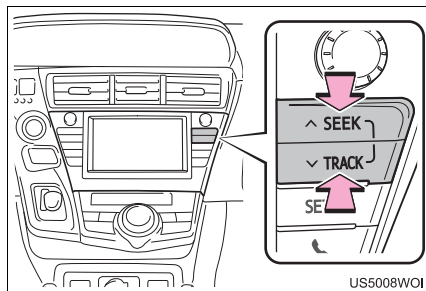
INFORMATION

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

5
AUDIO/VIDEO SYSTEM

FAST FORWARDING OR REWINDING

- 1 Press and hold the “^” or “v” button of “SEEK/TRACK” to fast forward or rewind the track.



- When the button is released, the player resumes playing from that position.

REPEATING

The track or album currently being listened to can be repeated.

REPEATING A TRACK

- 1 Touch “RPT” while the track is playing.



- Each time “RPT” is touched, the mode changes as follows:
 - Track Repeat → Album Repeat → Off
- “RPT” appears on the screen. When the track is finished, the player will automatically play it again. To cancel this function, touch “RPT” repeatedly until the repeat mode turns off.

REPEATING AN ALBUM

- 1 Touch “RPT” repeatedly until “ALB.RPT” appears on the screen.
- When the album is finished, the player will automatically go back to the beginning of the album and play it again. To cancel this function, touch “RPT” again.

RANDOM ORDER

Tracks or albums can be automatically and randomly selected.

PLAYING THE TRACKS ON THE ALBUM IN RANDOM ORDER

- 1 Touch “RAND” while the track is playing.



- Each time “RAND” is touched, the mode changes as follows:
 - Album Random → All Track Random → Off
- Once “RAND” appears on the screen, the system selects a track randomly from the album currently being listened to. To cancel this function, touch “RAND” repeatedly until the random mode turns off.

■ **PLAYING TRACKS FROM ALL THE ALBUMS IN RANDOM ORDER**

- 1 Touch “**RAND**” repeatedly until “ALB.RAND” appears on the screen.
- Once “ALB.RAND” appears on the screen, the system selects a track randomly from all of the existing albums on the Bluetooth® device. To cancel this function, touch “**RAND**” again.

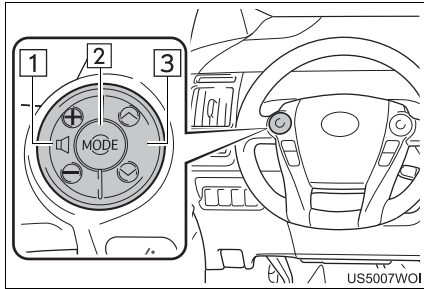
INFORMATION

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

1. AUDIO/VIDEO SYSTEM OPERATION

11. AUDIO/VIDEO REMOTE CONTROLS (STEERING SWITCHES)

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



No.	Switch
1	Volume control switch
2	"MODE" switch
3	"^ v" switch

1 Volume control switch

- Press the "+" side to increase the volume. The volume continues to increase while the switch is being pressed.
- Press the "-" side to decrease the volume. The volume continues to decrease while the switch is being pressed.

2 "MODE" switch

- Press the "MODE" switch to select an audio mode. Each press changes the mode sequentially if the desired mode is ready to use.
- To turn the audio/video system on, press the "MODE" switch.
- Press and hold the "MODE" switch to mute/unmute or pause/resume the current operation.

3 "^ v" switch

► Radio

To select a preset station/channel:

Quickly press and release the "^" or "v" switch. Repeat this to select the next preset station/channel.

To seek a station/channel: Press and hold the "^" or "v" switch until a beep is heard. Repeat this to find the next station/channel. If either switch is pressed during seek mode, seeking will be canceled.

- To seek up or down the frequency, press and hold the switch until a beep is heard. When you release the switch, the radio will begin seeking up or down for a station/channel. Repeat to find the next station/channel.

► DVD player

- Use the "^" or "v" switch to skip up or down to a different track, file or chapter in either direction.

To select a desired track, file or chapter:

Quickly press and release the "^" or "v" switch until the desired track, file or chapter to play is selected. To return to the beginning of the current track, file or chapter, press the "v" switch once quickly.

To select a desired folder: Press and hold the "^" or "v" switch until a beep is heard to change to the next or the previous folder. Repeat it until the desired folder is selected.

► Bluetooth® audio player

- Use the “^” or “v” switch to skip up or down to a different track or album in either direction.

To select a desired track: Quickly press and release the “^” or “v” switch until the desired track is selected. To return to the beginning of the current track, press the “v” switch once quickly.

To select a desired album: Press and hold the “^” or “v” switch until a beep is heard to change to the next or the previous album. Repeat it until the desired album is selected.

► USB memory/iPod

- Use the “^” or “v” switch to skip up or down to a different file or track in either direction.

To select a desired file or track: Press the “^” or “v” switch until the desired file or track is selected. To return to the beginning of the current file or track, press the “v” switch once quickly.

To select a desired folder or album (USB memory only): Press and hold the “^” or “v” switch until a beep is heard to change to the next or the previous folder or album. Repeat it until the desired folder or album is selected.

1. AUDIO/VIDEO SYSTEM OPERATION

12. AUDIO/VIDEO SYSTEM OPERATING HINTS

NOTICE

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

RADIO RECEPTION

Usually, a problem with radio reception does not mean there is a problem with the 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 phone wires can interfere with AM signals. And of course, radio signals have a limited range. The farther the vehicle is from a station, the weaker its signal will be. In addition, reception conditions change constantly as the vehicle moves.

Here, some common reception problems that probably do not indicate a problem with the radio are described.

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 2 signals to reach the vehicle's 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 being listened to is interrupted or weakened, and there is another strong station nearby on the FM band, the 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.

XM

- Cargo loaded on the roof luggage carrier, especially metal objects, may adversely affect the reception of XM Satellite Radio.
- Alternation or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

iPod

- "Made for iPod" and "Made for iPhone" mean that an electronic accessory has been designed to connect specifically to iPod, or iPhone, respectively, and has been certified by the developer to meet Apple performance standards.
- Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.
- iPhone, iPod, iPod classic, iPod nano and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

5

AUDIO/VIDEO SYSTEM

COMPATIBLE MODELS

The following iPod®, iPod nano®, iPod classic®, iPod touch® and iPhone® devices can be used with this system.

Made for

- iPod touch (4th generation)
- iPod touch (3rd generation)
- iPod touch (2nd generation)
- iPod touch (1st generation)
- iPod classic
- iPod with video
- iPod nano (6th generation)
- iPod nano (5th generation)
- iPod nano (4th generation)
- iPod nano (3rd generation)
- iPod nano (2nd generation)
- iPod nano (1st generation)
- iPhone 4
- iPhone 3GS
- iPhone 3G
- iPhone

Depending on differences between models or software versions etc., some models might be incompatible with this system.

USB MEMORY

- USB memory that can be used for MP3 and WMA playback:
 - USB communication formats: USB 2.0 HS (480 Mbps) and FS (12 Mbps)
 - File formats: FAT 16/32
 - Correspondence class: Mass storage class





CARING FOR YOUR DVD PLAYER AND DISC

- This DVD player is intended for use with 4.7 in. (12 cm) discs only.
- Extremely high temperatures can keep the DVD player from working. On hot days, use the air conditioning system to cool the inside of the vehicle before using the player.
- Bumpy roads or other vibrations may make the DVD player skip.
- If moisture gets into the DVD player, the discs may not be able to be played. Remove the discs from the player and wait until it dries.

CAUTION

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

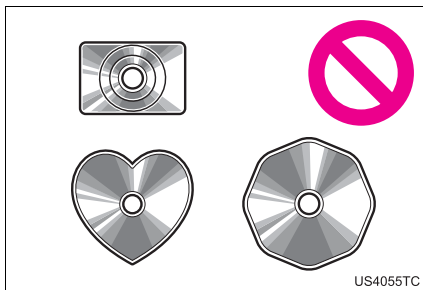
DVD PLAYER

Audio CDs		
DVD video discs		

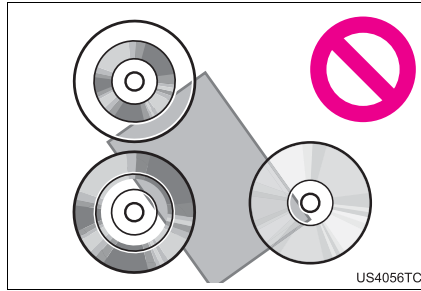
● Use only discs marked as shown above. The following products may not be playable on your player:

- SACD
- dts CD
- Copy-protected CD
- DVD audio
- Video CD
- DVD+R
- DVD+RW
- DVD-RAM

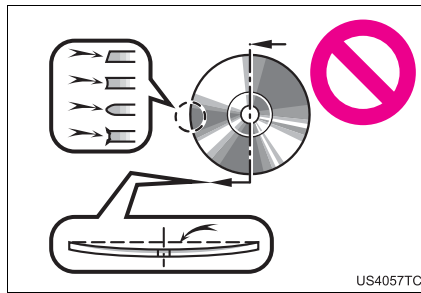
▶ Special shaped discs



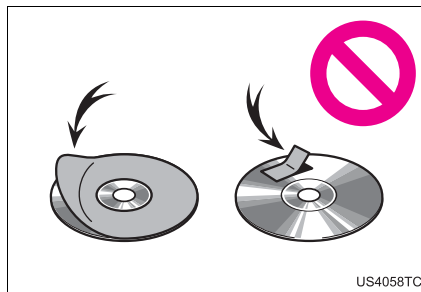
▶ Transparent/translucent discs



▶ Low quality discs

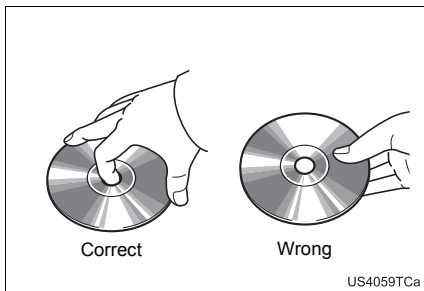


▶ Labeled discs

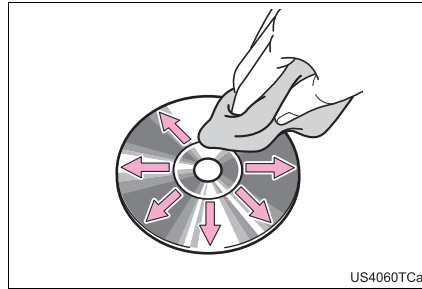


NOTICE

- Do not use special shaped, transparent/translucent, low quality or labeled discs such as those shown in the illustrations. The use of such discs may damage the player, or it may be impossible to eject the disc.
- This system is not designed for use of Dual Discs. Do not use Dual Discs because they may cause damage to the player.
- Do not use discs with a protection ring. The use of such discs may damage the player, or it may be impossible to eject the disc.



- Handle discs carefully, especially when 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 not in use. 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 MP3/WMA player can play only the first session when using multi-session compatible CDs.

- MP3 player: 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.
- USB memory: MP3 files are compatible with the ID3 Tag Ver. 1.0, Ver. 1.1, Ver. 2.2, Ver. 2.3 and Ver. 2.4 formats. The unit cannot display 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 and artist name.
- The emphasis function is available only when playing MP3/WMA files recorded at 32, 44.1 and 48 kHz.

SAMPLING FREQUENCY

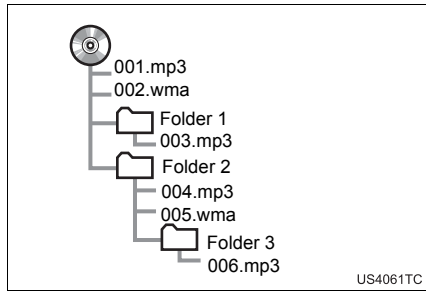
- MP3 files for MP3 player:
MPEG 1 LAYER 3 — 32, 44.1, 48 kHz
MPEG 2 LSF LAYER 3 — 16, 22.05, 24 kHz
- MP3 files for USB memory:
MPEG 1 AUDIO LAYER 2, 3 — 32, 44.1, 48 kHz
MPEG 2 AUDIO LAYER 2, 3 — 16, 22.05, 24 kHz
- WMA files for WMA player:
Ver. 7, 8, 9 (9.1/9.2) CBR — 32, 44.1, 48 kHz
- WMA files for USB memory:
Ver. 7, 8, 9 (9.1/9.2) CBR — 32, 44.1, 48 kHz
- 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

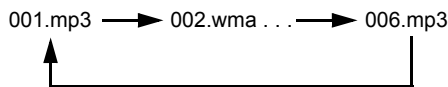
- MP3 files for MP3 player:
MPEG1 LAYER3 — 32 to 320 kbps
MPEG2 LSF LAYER3 — 8 to 160 kbps
- MP3 files for USB memory:
MPEG 1 AUDIO LAYER 3 — 32 to 320 kbps
MPEG 2 AUDIO LAYER 3 — 8 to 160 kbps
- WMA files for WMA player:
Ver. 7, 8 CBR — 48 to 192 kbps
Ver. 9 (9.1/9.2) CBR — 48 to 320 kbps (VBR*)
- WMA files for USB memory:
Ver. 9 (9.1/9.2) CBR — 48 to 320 kbps (VBR*)

*: Variable Bit Rate

- The MP3/WMA player does not play back MP3/WMA files from discs recorded 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 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 the 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 2 levels of folders.



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



- MP3/WMA player: It is possible to play up to 192 folders or 255 files on one disc.
- USB memory: It is possible to play up to 3000 folders, 255 files per folder or 9999 files in the device.
- The order changes depending on the personal computer 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 a 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 and 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 2 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.

- Music recognition technology and related data are provided by Gracenote®. Gracenote is the industry standard in music recognition technology and related content delivery. For more information visit www.gracenote.com.



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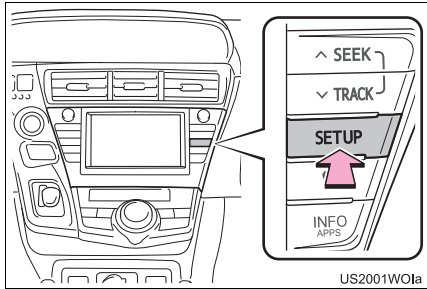
2. SETUP

1. AUDIO SETTINGS

HD Radio™ SYSTEM SETTINGS

HD Radio™ system can be set using the procedure outlined below.

1 Press the “**SETUP**” button.



2 Touch “**Audio**”.



3 Touch “**HD Radio Settings**”.



4 Touch “**HD Radio/Analog Setting**”.



5 Touch the item to be set.



Screen button	Function
“All”	Touch to receive both analog and digital broadcasts.
“HD Only”	Touch to receive only digital broadcasts.
“Analog”	Touch to receive only analog broadcasts.

6 Touch “**Save**”.

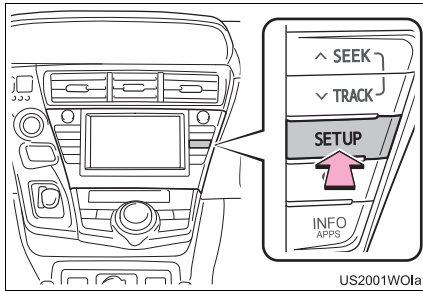
iPod SETTINGS

iPod can be set using the procedure outlined below.

COVER ART DISPLAY SETTINGS

When the track currently being played has cover art data, it can be displayed.

1 Press the **“SETUP”** button.



2 Touch **“Audio”**.



3 Touch **“iPod Settings”**.



4 Touch **“Display Cover Art”**.



5 Touch **“On” or “Off”**.



2. SETUP

6

VOICE COMMAND SYSTEM

1 VOICE COMMAND SYSTEM OPERATION

- 1. VOICE COMMAND SYSTEM..... 268
 - STEERING SWITCHES FOR THE VOICE COMMAND SYSTEM..... 268
 - VOICE COMMAND SYSTEM OPERATION 268
- 2. NATURAL SPEECH INFORMATION (ENGLISH ONLY) 274
- 3. EXPANDED VOICE COMMANDS 276
- 4. COMMAND LIST 277

1

2

3

4

5

6

7

8

9

1. VOICE COMMAND SYSTEM OPERATION

1. VOICE COMMAND SYSTEM

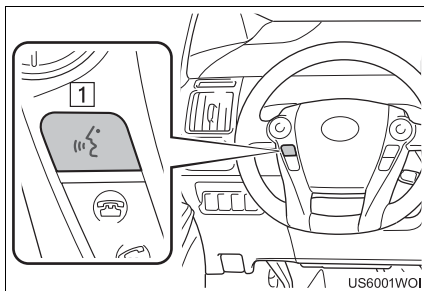
The voice command system enables the navigation, audio/video and hands-free systems to be operated using voice commands.

The operating procedures of voice commands from the "Shortcut Menu" screen are explained here.

INFORMATION

- Commands that are not displayed in the "Shortcut Menu" screen can be operated from the "Main Menu" screen.

STEERING SWITCHES FOR THE VOICE COMMAND SYSTEM



1 Talk switch

- Press the talk switch to start the voice command system.
- To cancel voice recognition, press and hold the talk switch.

VOICE COMMAND SYSTEM OPERATION


1 Press the talk switch.

- After the "Shortcut Menu" screen has been displayed, voice guidance will commence.

- Voice guidance for the voice command system can be skipped by pressing the talk switch.

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



- Voice commands are marked with . Some commonly used commands are displayed on the screen.

- By saying "**Next page**" or "**Previous page**", or by touching "**Next Pg.**"/"**Prev. Pg.**", the screen will display the commands displayed on the page in the background.

- Saying "**Main menu**" or touching "**Main Menu**" when the "Shortcut Menu" screen is displayed will display the "Main Menu" screen.

- Registered POIs, registered names in the phonebook etc., can be said in the place of the "<>" next to the commands. (See page 277.)

For example: Say "**Find nearby dining**", "**Call John**" etc.

- Saying **“Help”** prompts voice guidance to offer examples of commands and operation methods.

- 3 Say the command displayed on the screen.



- If a desired outcome is not shown, or if no selections are available, perform one of the following to return to the previous screen:
 - Say **“Go back”**.
 - Touch **“Go Back”**.
- To cancel voice recognition, touch **“Cancel”**, or press and hold the talk switch.

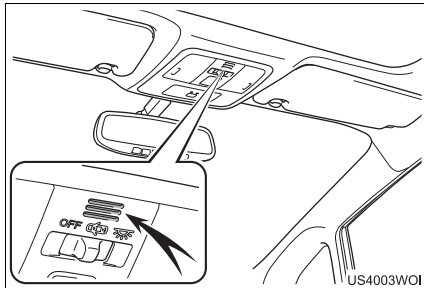
INFORMATION

- If the navigation system does not respond or the confirmation screen does not disappear, press the talk switch and try again.
- If a voice command cannot be recognized within 6 seconds, voice guidance will say “Pardon?” (“Command not recognized.” will be displayed on the screen) and voice command reception will restart.
- If a voice command cannot be recognized 2 consecutive times, the voice command guidance system will say “Paused. To restart voice recognition, push the talk switch. To cancel voice recognition, push and hold the talk switch.” Then voice recognition will be suspended.
- The voice recognition prompt can be set to on or off when **“Voice Prompts”** is touched. This setting can also be changed on the “Voice Settings” screen. (See page 52.)
- When **“Voice Prompts”** is touched, voice recognition will be temporarily suspended. Press the talk switch again.
- Voice guidance can be canceled by setting voice prompts to off. Use this setting when it is desirable to say a command immediately after pressing the talk switch and hearing a beep.

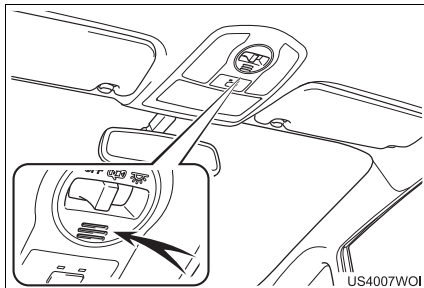
MICROPHONE

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

► Type A



► Type B



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 roof or windows are open.
 - Passengers are talking while voice commands are spoken.
 - The air conditioning speed is set high.
 - The air conditioning vents are turned towards the microphone.
- In the following conditions, the system may not recognize the command properly and using voice commands may not be possible:
 - The command is incorrect or unclear. Note that certain words, accents or speech patterns may be difficult for the system to recognize.
 - There is excessive background noise, such as wind noise.

VOICE COMMAND EXAMPLE: SEARCHING FOR A ROUTE TO YOUR HOME

- 1 Press the talk switch.
- 2 Say **“Go home”**.
 - A confirmation screen will be displayed showing the recognition results.
- 3 Say **“Yes”** or touch **“Yes”**.
 - The system starts searching for a route to your home.



- When the voice command is recognized, the map of the area around the home address will be displayed and route guidance to the home address will begin.
- If a home address is not registered, voice guidance will say “Your home is not set. Please try again after setting a home location.” and you will be prompted to enter a home address. (See page 97.)

VOICE COMMAND EXAMPLE: PERFORMING A DESTINATION SEARCH BY ADDRESS (ENGLISH ONLY)

- 1 Press the talk switch.
- 2 Say **“Enter an address”**.
 - If the destination’s state/province has not been set or is not contained in the voice command recognition list, the screen to input a state/province will be displayed.



- Some areas cannot be recognized by the voice recognition system.
 - For information regarding the state/province setting to perform a destination search by address, see “SELECTING THE SEARCH AREA” on page 56.
- 3 Say **“<city name>”**.
 - Say the desired city name that belongs to the set state in the place of the “<>”.
 - Say **“Change State”** to change the set voice recognition state.

4 Say "<street name>".

- Say the desired full street name, or main body of the street name that belongs to the set state in the place of the "<>".
- The voice command recognition is designed to recognize the main body of the official street name.

For example, if the official street name is "**East Main Street**", the voice command recognition will recognize "**Main**".

5 Say "<house number>".

- Say the desired number, cardinal/intercardinal direction etc. in the place of the "<>".

For example: Say "**West 555**".

- Inputting the house number can be skipped.

6 Say "Start guidance" or "Show map". Alternatively, touch "Start Guidance" or "Show Map".

- After this, follow the voice guidance and search for a destination route by voice command operation.

INFORMATION

- Even if the state set using voice recognition is different from the set state in the "Address" screen (which was set when a destination was set manually), the set state in the "Address" screen will not change. (For more information on the "Address" screen, see "SELECTING THE SEARCH AREA" on page 56.)
- The house number voice recognition conditions are outlined below:
 - Numerals: 10 digits or less
 - Numerals and cardinal/intercardinal direction or a hyphen and numerals: A total of 9 digits or less (Do not say "and".)
 - Cardinal/Intercardinal direction or a hyphen and numerals: A total of 9 digits or less (Do not say "and".)
 - Numerals are recognized as single digits only.
 - The cardinal/intercardinal direction and hyphens are only recognized once.
 - The following cardinal/intercardinal directions can be recognized: North, East, West, South, North East, North West, South East and South West.
- When inputting the house number is skipped and the recognized candidate list has multiple entries and so forth, the full street name may need to be recognized. If this occurs, say the full street name. For example, say "**East Main Street**" and "**East Main Street**" will be recognized.

VOICE COMMAND EXAMPLE: SEARCH FOR A TRACK USING ARTIST NAME OR ALBUM NAME

- 1 Press the talk switch.
 - “Play Artist <name>” and “Play Album <name>” are displayed in the “Shortcut Menu” screen.
- 2 Say “**Play artist <name>**” or “**Play album <name>**”.
 - Say the desired artist name or album name in the place of the “<>”.
 - A confirmation screen will be displayed showing the recognition results. If multiple matching items are found, a selection screen will be displayed.
- When “Play Artist <name>” is used to play music, the first track is selected randomly. For operations beyond playing music, refer to the “AUDIO/VIDEO SYSTEM” section of this manual.
- 3 Say “**Yes**” or touch “**Yes**”.



- The system starts playing music.

- Music recognition technology and related data are provided by Gracenote®. Gracenote is the industry standard in music recognition technology and related content delivery. For more information visit www.gracenote.com.

INFORMATION

- A USB memory or iPod must be connected to enable track searching and playback. (See “USB MEMORY OPERATION” on page 233 and “iPod OPERATION” on page 238.)
- When a USB memory or iPod is connected, recognition data is created so tracks can be searched using voice commands.
- Recognition data is updated under the following conditions:
 - When the USB memory or iPod data has changed.
 - When the voice recognition language is changed. (See page 46.)
- While the recognition data is being created or being updated, a track search cannot be performed using a voice command.
- While “Play Music” is displayed in the “Shortcut menu” screen, say “**Play music**” to display the music screen from which searching for a track using a voice command can be performed.
- When “Play Music” is dimmed in the “Shortcut Menu” screen, it is not possible to search for a track using a voice command. In this situation, reduce the amount of music data in the USB memory or iPod and update the recognition data to enable searching by voice command.

1. VOICE COMMAND SYSTEM OPERATION

2. NATURAL SPEECH INFORMATION (ENGLISH ONLY)

Due to natural language speech recognition technology, this system enables recognition of a command when spoken naturally. However, the system cannot recognize every variation of each command. In some situations, it is possible to omit the command for the procedure and directly state the desired operation. Not all voice commands are displayed in the short cut menu.

INFORMATION

- The “Set a Destination”, “Use the Phone”, “Play Music” and “Get Information” commands displayed on the “Shortcut Menu” screen can be operated using natural language speech recognition technology.
- If the command cannot be recognized completely, the command input screen will be displayed. (Search results will be shown based on the part of the command that was recognized.)

EXPRESSION EXAMPLES FOR EACH FUNCTION

Command	Expression examples
“Go Home”	<i>Let's go home. Take me home.</i>
“Enter an Address”	<i>I wanna enter an address, please. Put in an address.</i>
“Find Nearby <POI category>”	<i>Find nearby <Restaurants> for me. I need to see the nearby <Restaurants>.</i>
“Call <name> <type>”	<i>Get me <Robert Brown>. I need to call <Robert Brown> at <Work> right away.</i>
“Dial <number>”	<i>Please dial the number <3334445555>. Ring <3334445555>.</i>
“Play Artist <name>”	<i>Play the artist <XXXXX>. I'd like to hear the band <XXXXX>.*</i>
“Play Album <name>”	<i>Play album <XXXXX>. Music from album <XXXXX>.*</i>

*: Say the desired artist name or album name in the place of the “<>”.

Command	Expression examples
"Traffic"	<i>How's the traffic? Check the traffic.</i>
"Weather"	<i>What's the weather like? Let's get a forecast.</i>
"Sports Scores"	<i>Team scores. How are my favorite teams doing?</i>
"Stock Quotes"	<i>Stock quotes. How are my stocks do- ing?</i>
"Fuel Prices"	<i>Let's check fuel prices. Find the cheapest gas prices.</i>

INFORMATION

- Commands that are not displayed in the "Shortcut Menu" screen can be accessed from the main menu.
- For example, to make an "International Call", say "**Main menu**" while the "Shortcut Menu" screen is being displayed. Then say "**Use the phone**" followed by saying the desired number, e.g. "**123456789**".

1. VOICE COMMAND SYSTEM OPERATION

3. EXPANDED VOICE COMMANDS

Touching “On” next to “Expanded Voice Commands” on the “Voice Settings” screen enables voice command operation of the audio/video system. (See page 52.) For more information on operations that can be controlled using expanded voice commands, refer to “COMMAND LIST”. (See page 277.)

VOICE COMMAND EXAMPLE: TURN THE AUDIO SYSTEM ON

- 1 Press the talk switch.
- 2 Say “**Audio on**”.



INFORMATION

- Commands relating to operation of the audio/video system can only be performed when the audio system is turned on.
- Expanded voice commands can be recognized when the “Shortcut Menu” screen is displayed.

1. VOICE COMMAND SYSTEM OPERATION

4. COMMAND LIST

Recognizable voice commands and their actions are shown below.

- All commands are listed in the table.
 - For devices that are not installed in the vehicle, the related commands will not be displayed in the “Shortcut Menu” screen. Also, according to conditions, other commands may not be displayed in the “Shortcut Menu” screen.
 - The functions available may vary according to the navigation system installed.
- Voice recognition language can be changed. (See “SELECTING A LANGUAGE” on page 46.)

▶ “Set a Destination”

Command	Action	Shortcut Menu
“Find Nearby <POI category>”	Displays a list of <POI category* ¹ > near the current position.	○
“Enter an Address”	Enables setting a destination by saying the address.	○
“Go Home”	Displays the route to home.	○
“Destination by Phone Number” ^{*2}	Enables setting a destination by saying the phone number.	—

*1: For example; Gas stations, Restaurants, etc.

*2: To use this function, say “**Main menu**” and then “**Set a destination**” while the “Shortcut Menu” screen is being displayed.

6

VOICE COMMAND SYSTEM

1. VOICE COMMAND SYSTEM OPERATION

▶“Use the Phone” (See “BY VOICE RECOGNITION” on page 145.)

Command	Action	Shortcut Menu
“Call <name> <type>”	Calls made by saying a name from the phone-book. For example: Say “ Call John Smith ”, “ Call John Smith, mobile ” etc.	○
“Dial <number>”	Calls made by saying the phone number. For example: Say “ Dial 911 ”, “ Dial 5556667777 ” etc.	○
“International Call” ^{*1}	Calls international numbers by saying the phone number.	—

*1: To use this function, say “**Main menu**” and then “**Use the phone**” while the “Shortcut Menu” screen is being displayed.

▶“Play Music”

Command	Action	Shortcut Menu
“Play Artist <name>”	Plays tracks by the selected artist. For example: Say “ Play artist <XXXXX> ” ^{*1}	○
“Play Album <name>”	Plays tracks from the selected album. For example: Say “ Play album <XXXXX> ” ^{*1}	○
“Play Song <name>” ^{*2}	Plays the selected track. For example: Say “ Play song Summertime ”, “ Play song Concerto in A Major ” etc.	—
“Play Playlist <name>” ^{*2}	Plays tracks from the selected playlist. For example: Say “ Play playlist My Favorite Songs ”, “ Play Playlist Classic Hits ” etc.	—

*1: Say the desired artist name or album name in the place of the “<>”.

*2: To use this function, say “**Main menu**” and then “**Play music**” while the “Shortcut menu” screen is being displayed.

▶ “Get Information”

Command	Action	Shortcut Menu
“Traffic”	Displays the traffic incident list.	O
“Weather”	Displays weather information.	O
“Sports Scores”	Displays the sports list.	O
“Stock Quotes”	Displays the stocks list.	O
“Fuel Prices”	Displays the fuel prices list.	O

▶ Select audio mode

When Expanded Voice Commands are turned “On”. (See page 276.)

Command	Action	Shortcut Menu
“Radio”	Sets the audio mode to radio.	O
“AM”	Selects the AM band.	O
“FM”	Selects the FM band.	O
“Satellite radio”	Selects the satellite radio mode.	O
“Disc”	Selects the disc audio mode.	O
“Auxiliary”	Selects the auxiliary audio mode.	O
“Bluetooth* audio”	Selects the Bluetooth® audio mode.	O
“iPod”	Selects the iPod audio mode.	O
“USB audio”	Selects the USB audio mode.	O
“Audio on”	Turns the audio system on.	O
“Audio off”	Turns the audio system off.	O

6

VOICE COMMAND SYSTEM

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

INFORMATION

- Commands that have a “O” in the Shortcut Menu column can be recognized from the “Shortcut Menu” screen.
- Commands that have a “—” in the Shortcut Menu column can only be recognized from the screen that they are displayed in.

1. VOICE COMMAND SYSTEM OPERATION

7

INFORMATION

1 INFORMATION DISPLAY

- 1. **FUEL CONSUMPTION** 282
 - FUEL CONSUMPTION 282
- 2. **MAP DATABASE VERSION AND COVERAGE AREA** 283
 - MAP INFORMATION 283
 - CERTIFICATION 284

2 XM FUNCTION-OVERVIEW

- 1. **XM SERVICES** 285

3 XM FUNCTION OPERATION

- 1. **XM Sports** 286
 - RECEIVE SPORTS INFORMATION ... 286
 - XM Sports SETTINGS —
ADD OR DELETE TEAMS 287
- 2. **XM Stocks** 289
 - RECEIVE STOCK DATA 289
 - XM Stocks SETTINGS —
ADD OR DELETE STOCKS 290
- 3. **XM Fuel Prices** 292
 - SHOW XM Fuel Prices
INFORMATION 292
 - VIEW DETAILED FUEL PRICE
INFORMATION 292
 - XM Fuel Prices SETTINGS 293
- 4. **XM NavWeather™** 295
 - SHOW XM NavWeather™
INFORMATION 295
 - WEATHER INFORMATION 296
 - WEATHER WARNINGS 297
 - XM NavWeather™ INDICATOR 297
- 5. **XM NavTraffic®** 298
 - SHOW TRAFFIC EVENT 298
 - SHOW XM NavTraffic®
INFORMATION 299

4 SETUP

- 1. **XM SETTINGS** 301

1

2

3

4

5

6

7

8

9

1. INFORMATION DISPLAY

1. FUEL CONSUMPTION

FUEL CONSUMPTION

Fuel consumption information, such as that shown below, can be displayed on the screen. For details see Section 1-1 of "Owner's Manual".

- Energy monitor
- Trip information
- Past record

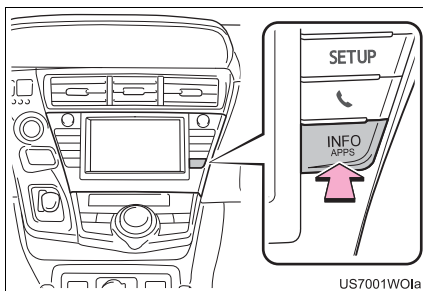
1. INFORMATION DISPLAY

2. MAP DATABASE VERSION AND COVERAGE AREA

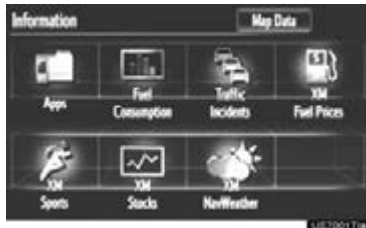
MAP INFORMATION

Coverage areas and legal information can be displayed and map data can be updated.

- 1 Press the "INFO/APPS" button.



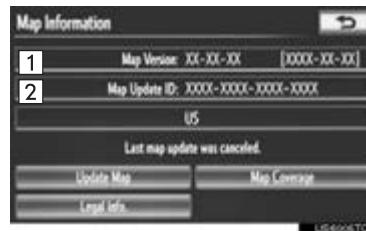
- 2 Touch "Map Data".



- The "Map Information" screen will be displayed.

INFORMATION

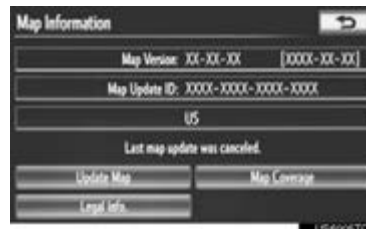
- Map data updates are available for a fee. Contact your Toyota dealer for further information.
- The "Map Information" screen displays
 - 1 "Map Version" and
 - 2 "Map Update ID".This data is needed to perform a map data update.



LEGAL INFORMATION

Legal information related to the map data can be displayed.

- 1 Press the "INFO/APPS" button.
- 2 Touch "Map Data" on the "Information" screen.
- 3 Touch "Legal Info."



- The "Legal Information" screen will be displayed.

7

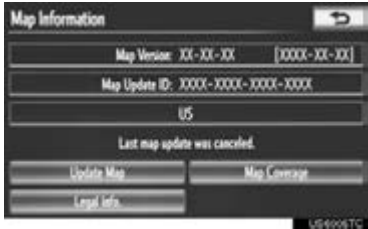
INFORMATION

1. INFORMATION DISPLAY

MAP COVERAGE

Map data coverage areas can be displayed.

- 1 Press the **“INFO/APPS”** button.
- 2 Touch **“Map Data”** on the **“Information”** screen.
- 3 Touch **“Map Coverage”**.



- The **“Map Data Coverage”** screen will be displayed.

CERTIFICATION

► For vehicles sold in Canada

- Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. This Category II radiocommunication device complies with Industry Canada Standard RSS-310.
- L'utilisation de ce dispositif est autorisée seulement aux deux conditions suivantes: (1) il ne doit pas produire de brouillage, et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif. Ce dispositif de radiocommunication de catégorie II respecte la norme CNR-310 d'Industrie Canada.

2. XM FUNCTION-OVERVIEW

1. XM SERVICES

XM services are subscription-based XM Satellite Radio services to provide convenient features to subscribers.

- With an active XM subscription, the following features are available:
 - XM Sports*¹ (See page 286.)
 - XM Stocks*¹ (See page 289.)
 - XM Fuel Prices*² (See page 292.)
 - XM NavWeather™*² (See page 295.)
 - XM NavTraffic®*² (See page 298.)

*¹: Available at no extra charge with an active XM Satellite Radio subscription.

*²: Available via separate XM subscription(s).

SUBSCRIPTION(S)

- XM NavTraffic®, XM NavWeather™ and XM TravelLink require separate XM subscription(s). XM Sports*, XM Stocks* and XM Fuel Prices are available with an XM TravelLink subscription. After a 90-day trial, you must contact XM and set up the appropriate XM subscription(s) to continue receiving these services.

*: XM Sports and XM Stocks are included with an XM Satellite Radio subscription.

AVAILABILITY OF SERVICE(S)

- The XM NavTraffic® service is available in the contiguous 48 U.S. states and Canada.
- The XM NavWeather™, XM Sports, XM Stocks and XM Fuel Prices services are available in the contiguous 48 U.S. states.

ACTIVATION OF SERVICE(S)

- To receive XM NavTraffic®, XM NavWeather™, XM Sports, XM Stocks and XM Fuel Prices services, the XM service must be activated. To activate the service, call the XM Listener Care Center at 1-800-967-2346 (U.S.A.) or 1-877-209-0079 (Canada).
- Customers should have their radio ID ready. The radio ID can be found by selecting "CH 000" on the radio. For details, see "DISPLAYING THE RADIO ID" on page 207.

INFORMATION

- For details about the XM service coverage areas, refer to www.siriusxm.com (U.S.A.) or www.xmradio.ca (Canada), or call XM Listener Care Center at 1-800-967-2346 (U.S.A.) or 1-877-209-0079 (Canada).
- For further details about the service, contact your Toyota dealer.
- XM Satellite Radio is responsible for all fees and services, which are subject to change.

7

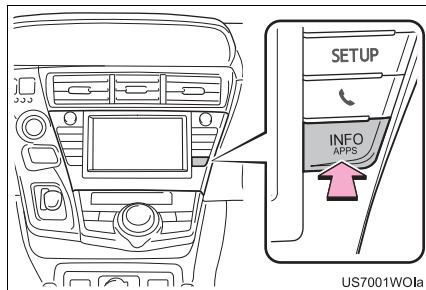
INFORMATION

3. XM FUNCTION OPERATION

1. XM Sports

XM Sports is a service included with an XM Satellite Radio subscription. This service is also available with an XM TravelLink subscription. With this service, you can receive updates via the navigation system on your personally selected sports teams.

- 1 Press the “**INFO/APPS**” button.



- 2 Touch “**XM Sports**”.

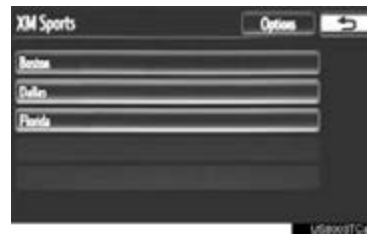


- The “XM Sports” screen is displayed.
- The following operations can be performed:
 - Sports information can be received. (See page 286.)
 - XM Sports settings can be set. (See page 287.)

RECEIVE SPORTS INFORMATION

The desired teams must be added in order to receive information. (See page 287.)

- 1 Press the “**INFO/APPS**” button.
- 2 Touch “**XM Sports**” on the “Information” screen.
- 3 Touch the desired team to receive information.



- Teams for which there is no current data available will be dimmed and you will not be able to select them.
- 4 Touch the individual information item to hear it, or touch “**Read All**” to hear all available information for that team.

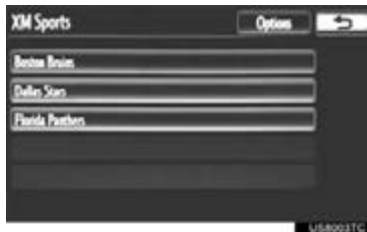


- The selected information will be read out in its entirety.

XM Sports SETTINGS — ADD OR DELETE TEAMS

To input your personalized XM Sports team.

- 1 Press the **“INFO/APPS”** button.
- 2 Touch **“XM Sports”** on the “Information” screen.
- 3 Touch **“Options”**.



- 4 Perform each setting according to the procedures outlined on the following pages.



- Personalized XM Sports teams can also be input from the “Setup” screen. (See “XM SETTINGS” on page 301.)

ADD SPORTS TEAM

- 1 Touch **“Add Sports Team”**.



- Up to 5 teams can be added and saved in the system for which information will be received. The desired teams can be changed at any time. Teams must be added one at a time.

- 2 Touch the desired sporting league of the team.



- 3 Touch the name of the desired team to be added from the list that appears.



- 4 Touch **“Yes”** to confirm or **“No”** to cancel.

7

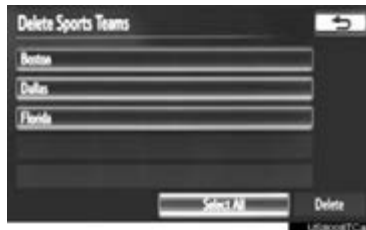
INFORMATION

DELETE SPORTS TEAMS

- 1 Touch **“Delete Sports Teams”**.



- 2 Touch the individual sports team to be deleted or touch **“Select All”** to delete all the teams, and touch **“Delete”**.



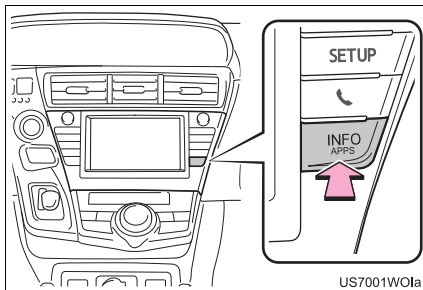
- 3 Touch **“Yes”** to confirm or **“No”** to cancel.

3. XM FUNCTION OPERATION

2. XM Stocks

XM Stocks is a service included with an XM Satellite Radio subscription. This service is also available with an XM TravelLink subscription. With this service, you can receive updates via the navigation system on your personally selected stocks.

- 1 Press the “**INFO/APPS**” button.



- 2 Touch “**XM Stocks**”.

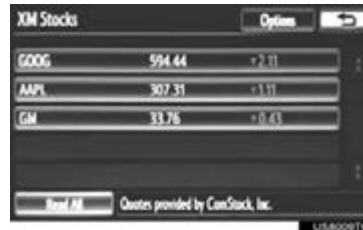


- The “XM Stocks” screen is displayed.
- The following operations can be performed:
 - Stock data can be received. (See page 289.)
 - XM Stocks setting can be set. (See page 290.)

RECEIVE STOCK DATA

You must first add your desired stocks prior to receiving data. (See page 290.)

- 1 Press the “**INFO/APPS**” button.
- 2 Touch “**XM Stocks**” on the “Information” screen.
- 3 Touch an individual stock to hear its related data, or touch “**Read All**” to hear the data for all the stocks saved in the system.



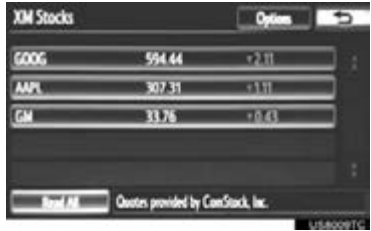
- The selected data will be read out in its entirety.
- Stock data may be delayed by approximately 20 minutes.

3. XM FUNCTION OPERATION

XM Stocks SETTINGS — ADD OR DELETE STOCKS

To input your personalized XM Stocks settings.

- 1 Press the **“INFO/APPS”** button.
- 2 Touch **“XM Stocks”** on the “Information” screen.
- 3 Touch **“Options”**.



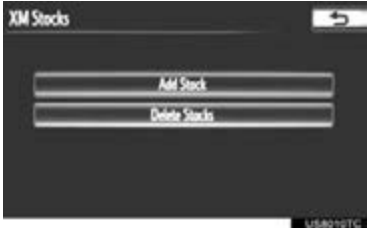
- 4 Perform each setting according to the procedures outlined on the following pages.



- Personalized XM Stocks settings can also be input from the “Setup” screen. (See “XM SETTINGS” on page 301.)

ADD STOCK

- 1 Touch **“Add Stock”**.



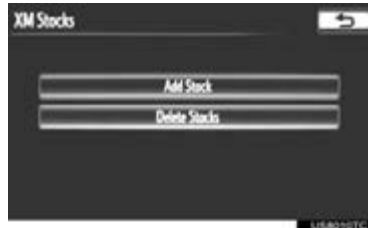
- 2 Input the desired stock symbol.



- 3 When finished, touch **“OK”**.
- Up to 10 individual stock symbols can be added and saved in the system for which information will be received. Stocks must be input one at a time. To enter a stock, the symbol of the desired stock must be known.

DELETE STOCKS

- 1 Touch **"Delete Stocks"**.



- 2 Touch the individual stock to be deleted or touch **"Select All"** to delete all the stocks, and touch **"Delete"**.



- 3 Touch **"Yes"** to confirm or **"No"** to cancel.

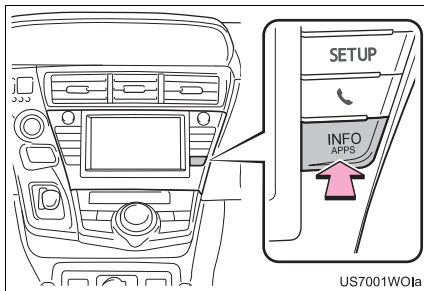
3. XM FUNCTION OPERATION

3. XM Fuel Prices

XM Fuel Prices is a service included with an XM TravelLink subscription. It enables the navigation system to display current fuel prices and gas station locations, which can be set as a destination if desired.

SHOW XM Fuel Prices INFORMATION

- 1 Press the “**INFO/APPS**” button.

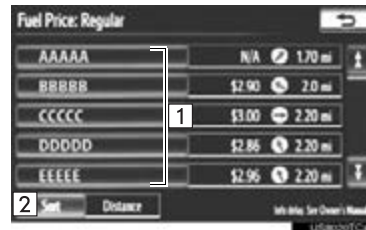


- 2 Touch “**XM Fuel Prices**”.



- The “Fuel Price” screen is displayed.

XM Fuel Prices SCREEN



- 1 Gas station name
- 2 Sort

VIEW DETAILED FUEL PRICE INFORMATION

- 1 Press the “**INFO/APPS**” button.
- 2 Touch “**XM Fuel Prices**” on the “Information” screen.
- 3 Touch the desired gas station from the list.



- The location of the selected gas station will be displayed on the map screen.

4 Touch “Info”.



- When the map scale is at the maximum range of 0.5 miles (800 m), is not shown. When the map scale is at the minimum range of 150 ft. (50 m), is not shown.



“**Mark**”: Touch to mark the selected gas station on the map screen.

“**Go to** ”: Touch to set the selected gas station as a destination with route directions.

“**Add to Route**”: Touch to add the selected gas station as a destination.

“**Detail**”: Touch to read the selected gas station’s information.

- If is touched, the registered phone number can be called.

INFORMATION

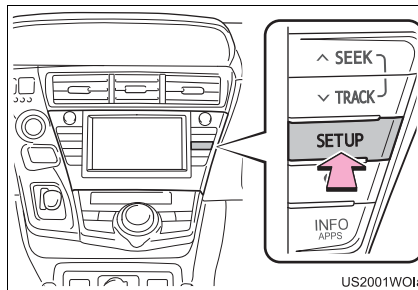
- The information displayed is received via satellite radio. Depending on the time the information is received, the displayed information may not be up to date.

XM Fuel Prices SETTINGS

The desired fuel type, preferred brand, and show prices reported can be registered.

REGISTER FUEL TYPE

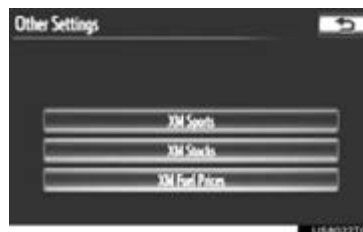
- 1 Press the “**SETUP**” button.



- 2 Touch “**Other**”.



- 3 Touch “**XM Fuel Prices**”.



- 4 Touch **“Fuel Type”**.



- 5 Touch the desired fuel type.
- **“Premium”**, **“Midgrade”**, **“Regular”** or **“Diesel”** can be selected.
- 6 Touch **“Save”**.

REGISTER PREFERRED BRAND

- 1 Press the **“SETUP”** button.
- 2 Touch **“Other”** on the “Setup” screen.
- 3 Touch **“XM Fuel Prices”** on the “Other Settings” screen.
- 4 Touch **“Preferred Brand”**.



- 5 Touch the preferred brand.
- 6 Touch **“Save”**.

REGISTER SHOW PRICES REPORTED

- 1 Press the **“SETUP”** button.
- 2 Touch **“Other”** on the “Setup” screen.
- 3 Touch **“XM Fuel Prices”** on the “Other Settings” screen.
- 4 Touch **“Show Prices Reported”**.



- 5 Touch the desired period.
 - **“Last 24 Hours”**, **“Last 2 Days”** or **“Show All”** can be selected.
 - If **“Show All”** is selected, information about gas stations which fuel prices are not provided is also displayed on the list.
- 6 Touch **“Save”**.

3. XM FUNCTION OPERATION

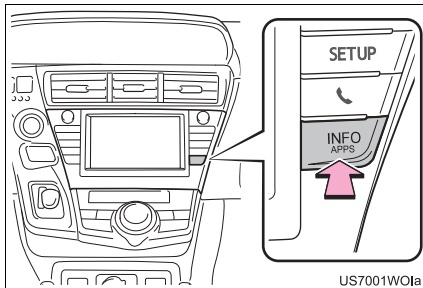
4. XM NavWeather™

The subscription-based XM NavWeather™ service allows the navigation system to display weather information on the map screen.

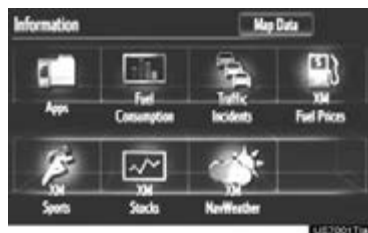
- The following operations can be performed:
 - Show XM NavWeather™ information: Weather forecast information is displayed on the map screen. (See page 295.)
 - Weather information: Weather information for the selected city is displayed. (See page 296.)
 - Weather warnings: Weather warnings issued within a radius of approximately 15 miles (25 km) or 7.8 miles (12.5 km) around the vehicle are displayed on the warning screen. (See page 297.)

SHOW XM NavWeather™ INFORMATION

- 1 Press the “INFO/APPS” button.



- 2 Touch “XM NavWeather”.



- The XM NavWeather screen is displayed.

XM NavWeather™ SCREEN



1 “Info”

- When the city icon is touched, “Info” is displayed on the map screen. Touching this screen button displays the “Forecast” screen. (See page 296.)

2 City icon

- When this screen button is touched, city names and “Info” are displayed on the upper part of the screen.

3 “Forecast”

- When this screen button is touched, the city selection screen is displayed.



- Touch a city to display weather information. Weather information of the selected city will be displayed. (See page 296.)

4 “Current Location”

- When “Current Location” is touched, the current position is displayed.

5 Zoom in/out screen button

- The scale of the map can be changed. Three zoom levels can be selected; 16 miles (26 km), 30 miles (48 km) and 60 miles (97 km).















7

INFORMATION

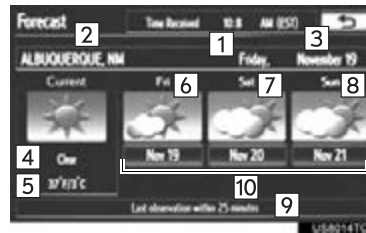
3. XM FUNCTION OPERATION

6 Weather icons and grids

- Inclement weather information is displayed on the map using weather icons and grids. Touching an icon shows the related information at the top of the screen.

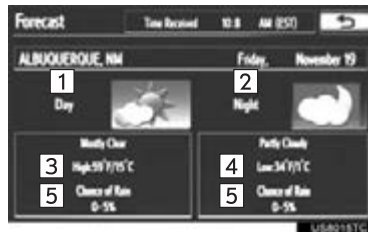
Icon	Weather
	Tornado
	Hurricane
	Storm
	Flood
	Winter
	Wind
	Extremes
	Other
	Hail storm
	Severe thunderstorm
	Heavy fog
	Heavy freezing rain/ice
	Heavy snow
	Heavy rain

WEATHER INFORMATION



No.	Function
1	Received time
2	City name
3	Today's date
4	Current weather
5	Current temperature
6	Today's weather
7	Tomorrow's weather
8	Day after tomorrow's weather
9	Observed time (Time elapsed since last update)
10	Specified day's weather

- When the specified day's weather screen button is touched, weather information for a specified day is displayed.



No.	Function
1	Daytime weather
2	Nighttime weather
3	Maximum temperature
4	Minimum temperature
5	Precipitation probability

WEATHER WARNINGS

Weather warnings issued within a radius of approximately 15 miles (25 km) or 7.8 miles (12.5 km) around the vehicle are displayed on the warning screen.



“Weather Map”: When this screen button is touched, the “XM NavWeather” screen is displayed.

“OK”: When this screen button is touched, the screen returns to the map of the current position.

XM NavWeather™ INDICATOR



- When an XM NavWeather™ warning is issued within the vicinity, the XM NavWeather™ indicator will appear on the map screen.

7

INFORMATION

3. XM FUNCTION OPERATION

5. XM NavTraffic®

The subscription-based XM NavTraffic® service allows the navigation system to display traffic information on the map screen.

The following operations can be performed:

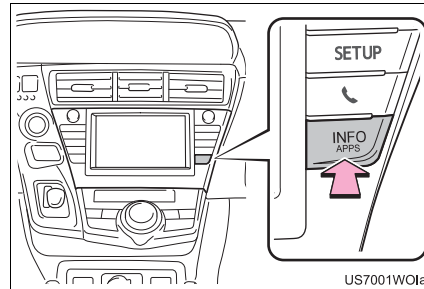
- Show XM NavTraffic® Information: Traffic information is displayed on the map screen. (See page 299.)
- Auto Avoid Traffic: If any heavy congestion or moderate traffic has been detected on the guidance route, it may be possible for you to select another route offered by the system. (See page 114.)
- Traffic Incident Warning: Traffic congestion information is provided using voice guidance. (See page 53.)
- Show Free Flowing Traffic: Freely flowing traffic is shown by the arrow on the map. (See page 115.)

INFORMATION

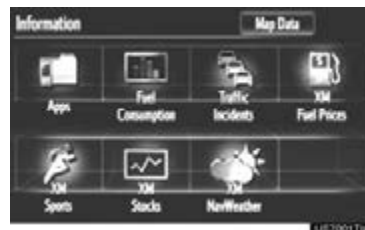
- When the “Traffic Information” indicator is dimmed, “Avoid Traffic”, “Traffic Incident Warning” and “Show Free Flowing Traffic” will not operate. (See page 299.)

SHOW TRAFFIC EVENT

- 1 Press the “INFO/APPS” button.



- 2 Touch “Traffic Incidents”.



- A list of current traffic incidents is displayed along with information on the incident's distance and position relative to the vehicle.

- 3 Touch the desired traffic event.



“On Current Route”: Touch to display the traffic congestion information for the selected route, or the road which the current vehicle is on. If a route has not been set, “On Current Road” will be displayed.

4 This screen is displayed.



- Guidance route traffic information is displayed on the screen. Touch **“Detail”** to display detailed traffic event information.



SHOW XM NavTraffic® INFORMATION

1 Touch **“Show on Map”**.



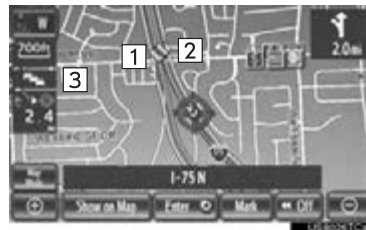
2 Touch **“Traffic Information”**.



- The **“Traffic Information”** indicator is highlighted.

3 XM NavTraffic® information is displayed on the map screen.

▶ On the map screen



▶ On the freeway information screen



7

INFORMATION

3. XM FUNCTION OPERATION

1 XM NavTraffic® icon

- When any traffic information is 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 37.)
- When the XM NavTraffic® icon is selected, voice guidance for the traffic information will start even if “Off” for “Traffic Incident Warning” is selected.

2 XM NavTraffic® information arrow

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

Color	Function
Red	Heavy congestion
Yellow	Moderate traffic
Green	Freely flowing traffic

3 XM NavTraffic® indicator

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

Color	Function
White	Traffic information has been received.
Yellow	Traffic restriction information on the guidance route has been received (screen button*).
Red	Congestion information on the guidance route has been received (screen button*).

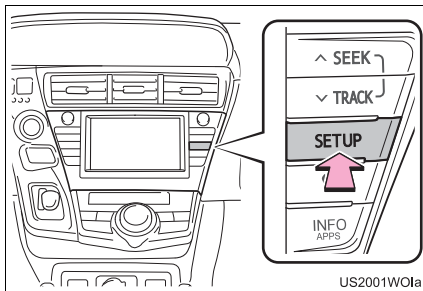
*: Touching the XM NavTraffic® indicator will start voice guidance.

4. SETUP

1. XM SETTINGS

Used for changing settings for XM Sports, XM Stocks and XM Fuel Prices.

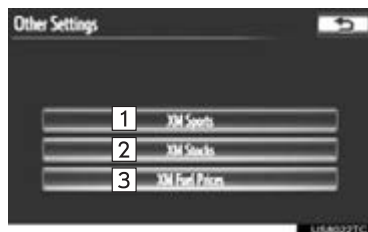
- 1 Press the **"SETUP"** button.



- 2 Touch **"Other"**.



- 3 Touch the item to be set.



- On this screen, the following functions can be performed:

No.	Function	Page
1	Touch to set XM Sports.	286
2	Touch to set XM Stocks.	289
3	Touch to set XM Fuel Prices.	292

4. SETUP

8

APPS

1 ENTUNE-OVERVIEW

- 1. **ENTUNE SERVICE** 304
 - SUBSCRIPTION 305
 - AVAILABILITY OF SERVICE..... 305
 - INITIALIZING PERSONAL DATA 305
- 2. **BEFORE USING ENTUNE**..... 306
 - SETTINGS REQUIRED TO USE ENTUNE..... 306
 - USER REGISTRATION 306
 - REGISTERING THE ENTUNE APPLICATION..... 307

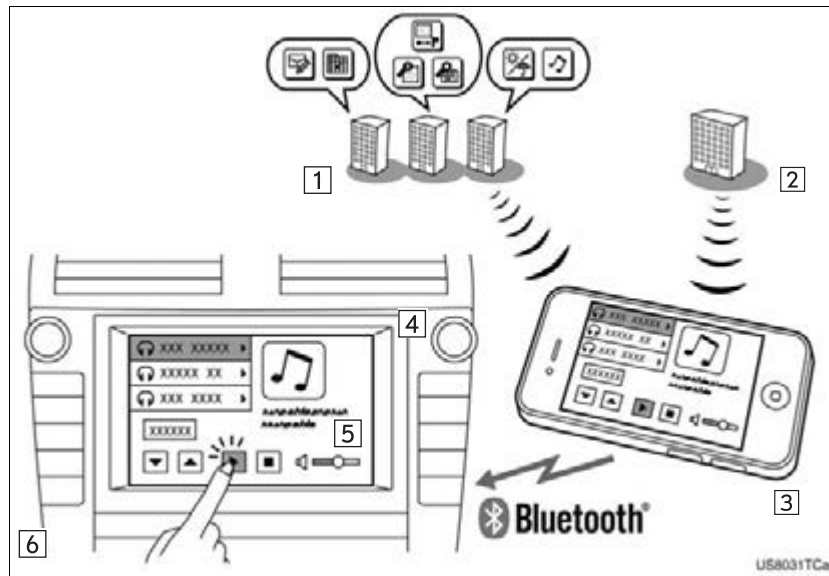
2 ENTUNE OPERATION

- 1. **ACTIVATING “APPS”** 308
 - ACTIVATING “APPS” 308
 - IF A MESSAGE APPEARS ON THE SCREEN 310
- 2. **LINKING “APPS” AND NAVIGATION LOCAL FUNCTION** 311
 - SETTING A DESTINATION USING “APPS” 312
 - MAKING A PHONE CALL USING “APPS” 312
- 3. **INPUTTING KEYWORD OPERATION** 313
 - INPUTTING A KEYWORD USING THE SOFTWARE KEYBOARD 313
 - INPUTTING A KEYWORD USING THE VOICE RECOGNITION FUNCTION..... 313

1. ENTUNE-OVERVIEW

1. ENTUNE SERVICE*¹

Entune is a service that enables the usable contents of a cellular phone to be displayed on and operated from the navigation screen. Before Entune can be used, a few settings need to be performed. (See page 306.)



No.	Name	Function
1	Contents provider	Provides contents to the navigation system via a cellular phone.
2	Application server	Provides applications to the navigation system via a cellular phone.
3	Cellular phone* ²	Using the Entune application, communication is relayed between the navigation system, the application server and the contents provider. A cellular phone cannot be operated while communicating.
4	Application player	Runs applications on the navigation system. The navigation system is equipped with an application player.
5	Applications ("Apps")	Displays and sounds the usable contents from the contents providers via a cellular phone on the application player.
6	Navigation system	Contents received, via a cellular phone, from the contents provider servers are displayed on the navigation screen.

*1: Entune is available in the 48 states, D.C. and Alaska.

*2: For known compatible phones, refer to <http://www.Toyota.com/entune/>.

SUBSCRIPTION

- Entune will be available on a 3 year trial period included upon purchase of a new vehicle. User registration is required to start using the service. (See page 307.)
- When 3 years have elapsed after purchasing a new vehicle, a fee will be charged to renew the contract.*
- Services requiring a separate contract can also be used.*

*: For details, refer to <http://www.Toyota.com/entune/> or call 1-800-331-4331.

AVAILABILITY OF SERVICE

- Entune is available in the 48 states, D.C. and Alaska.

INFORMATION

- When using Entune, depending on the details of your cellular phone contract, data usage fees may apply. Confirm data usage fees before using this service.
- In this section, the required operations to activate "Apps", connect a cellular phone to the navigation system and registration steps for Entune are explained. For details regarding Entune operations and each of the "Apps", refer to <http://www.Toyota.com/entune/>.

INITIALIZING PERSONAL DATA

The personal data used in "Apps" can be reset. (See "DELETING PERSONAL DATA" on page 51.)

- The following personal data can be deleted and returned to their default settings:
 - Downloaded contents
 - Radio stations that were listened to
 - Input history

INFORMATION

- Once initialized, data will be erased. Pay close attention when initializing the data.

1. ENTUNE-OVERVIEW

2. BEFORE USING ENTUNE

SETTINGS REQUIRED TO USE ENTUNE

Perform the settings in the following order.

1 User registration



2 Download the Entune application to your cellular phone.



3 Register the cellular phone with the navigation system.

In order to use Entune, the following settings must first be performed:

- User registration with the service contract (See page 306.)
- Download the Entune application onto your cellular phone, and login to the application. (See page 307.)
- Register the cellular phone that the Entune application was downloaded to with the navigation system. (See page 307.)
- Register a Bluetooth® phone with the hands-free system. (For detailed information about registration and settings, see “Bluetooth® SETTINGS” on page 177.)

USER REGISTRATION

When purchasing the vehicle, an email address is registered at your Toyota dealer. If your email address was not registered at your Toyota dealer, your email address can be registered at the Entune website. A user registration guidance email containing a web address will be sent.

- 1** Perform user registration from the designated web address.

REGISTERING THE ENTUNE APPLICATION

- 1 Download the Entune application using your cellular phone.
- 2 Run the Entune application on your cellular phone.
- 3 Enter a user name and password into the Entune application. Login to the application.

INFORMATION

- “Apps” can only be used when the Entune application has been downloaded to your cellular phone and the application is running.
- If your email address was not registered at your Toyota dealer when the vehicle was purchased, an email address can be registered at <http://www.Toyota.com/entune/>.
- Entune operational procedures can also be confirmed by visiting <http://www.Toyota.com/entune/>.
- In order to use “Apps”, it is necessary to run the Entune application, enter your user name and password and display the main menu on the cellular phone.
- An iPhone cannot be connected via Bluetooth® and USB connection at the same time. However, it is possible to recharge an iPhone while using Entune by connecting via USB. The system uses the connection method that was used last. Therefore, if connected via USB after Bluetooth® connection, it is necessary to reconnect the iPhone via Bluetooth®.

8

APPS

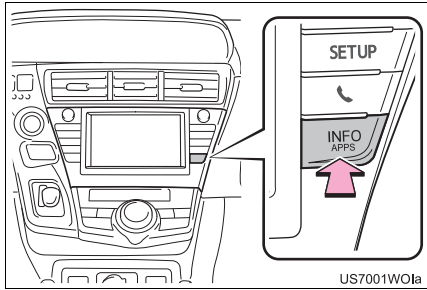
2. ENTUNE OPERATION

1. ACTIVATING “APPS”

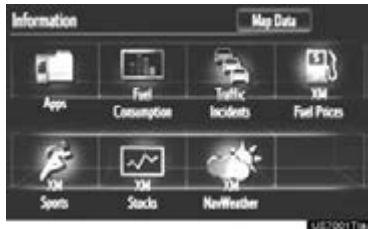
Each time “Apps” is activated, the system checks for updates. When there are no updates available, the main menu screen will be displayed right after a screen indicating that updates are being checked for has been displayed.

ACTIVATING “APPS”

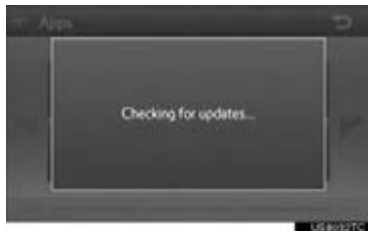
1 Press the “INFO/APPS” button.



2 Touch “Apps”.



3 A screen indicating that updates are being checked for will be displayed.

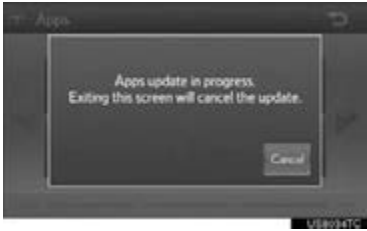


4 Touch “Update”.



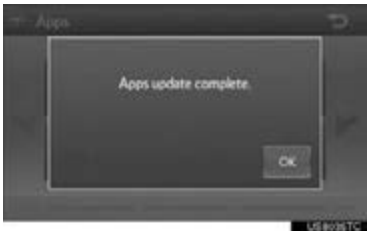
- To cancel updating, touch “Cancel”.
- After touching “Cancel”, the “Information” screen will be displayed.
- The “Information” screen will also be displayed if updating fails.

5 A screen indicating that an update is in progress will be displayed.

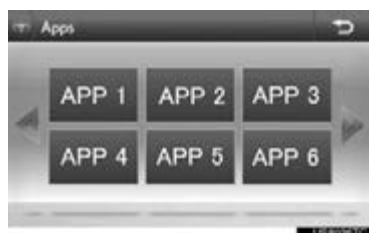


- To stop updating, touch “Cancel”.
- After touching “Cancel”, the “Information” screen will be displayed.
- The “Information” screen will also be displayed if updating fails.

6 Touch “OK”.



- 7 When updating is complete, the main menu screen will be displayed.



- The screen shown above is only an example. The actual screen may be different.
- For details about the function and service of each application displayed in the main menu, refer to <http://www.Toyota.com/entune/>.



APPS

IF A MESSAGE APPEARS ON THE SCREEN

When problems occur starting up the application player, a message will appear on the screen. Referring to the table below to identify the problem, take the suggested corrective action.

Message	Display conditions	Corrective action
"This feature is unavailable during an emergency call."	Safety Connect is being implemented.	After Safety Connect is finished, perform the operation again.
"This feature is unavailable while transferring contacts."	Contacts are being transferred manually from the phonebook.	When the transfer of contacts is complete, perform the operation.
"There is a problem with the Bluetooth* connection. For troubleshooting assistance, please visit Toyota.com or call 1-800-331-4331."	The cellular phone cannot be connected.	Refer to http://www.Toyota.com/entune/ to confirm if the phone is compatible or not.
"This feature is unavailable during a handsfree call."	A hands-free call is in progress.	After the hands-free call is finished, perform the operation.
"To use the services, an active application needs to be running on your phone. For more information, please visit Toyota.com."	The Entune application cannot be connected to SSP.	Refer to http://www.Toyota.com/entune/ to confirm if the phone is SSP compatible or not, and then activate the Entune application.
"Communication error. Please try again."	Communication was disconnected.	After a few moments, retry the operation.

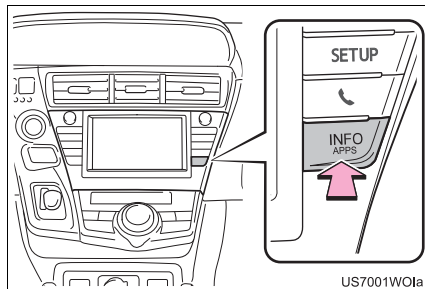
*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.

2. ENTUNE OPERATION

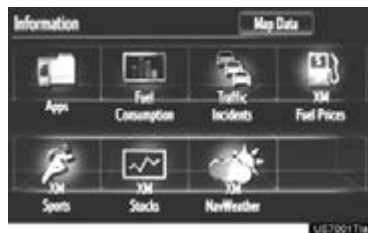
2. LINKING “APPS” AND NAVIGATION LOCAL FUNCTION

The navigation system's setting a destination and making a hands-free call can be performed via “Apps” of Entune.

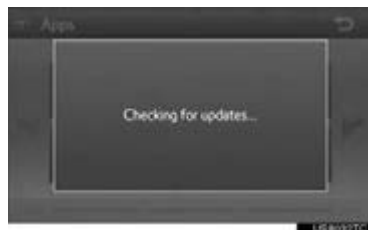
- 1 Press the “INFO/APPS” button.



- 2 Touch “Apps”.



- 3 A screen indicating that updates are being checked for will be displayed.



- 4 When updating is complete, the main menu screen will be displayed.



- The screen shown above is only an example. The actual screen may be different.
- For details about the function and service of each application displayed in the main menu, refer to <http://www.Toyota.com/entune/>.

INFORMATION

- Some parts of “Apps” can be adjusted using the switches on the steering wheel.

8

Apps

SETTING A DESTINATION USING "APPS"

Locations that were searched using "Apps" can be set as a destination.

- 1 Touch "Map".



- 2 Touch "Go to" with a location pin icon.



- 3 To start guidance, touch "OK".



- For the operation of the route guidance screen and the function of each screen button, see "STARTING ROUTE GUIDANCE" on page 74.

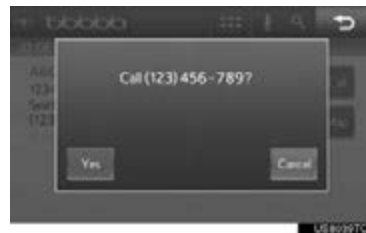
MAKING A PHONE CALL USING "APPS"

Phone calls can be made to locations which were searched using "Apps".

- 1 Touch "Call".



- 2 Touch "Yes".



- To cancel making a phone call, touch "Cancel".

- 3 A screen indicating that a call is in progress will be displayed.



- For phone operation and the function of each screen button, see "TALK ON THE Bluetooth® PHONE" on page 149.

2. ENTUNE OPERATION

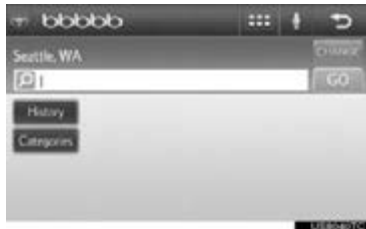
3. INPUTTING KEYWORD OPERATION

A keyword can be input to “Apps” by the software keyboard or voice recognition function.

- The keyboard layout can be changed. (See page 47.)

INPUTTING A KEYWORD USING THE SOFTWARE KEYBOARD

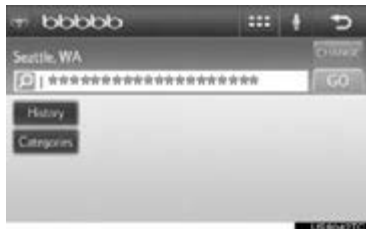
- 1 Touch the character input space.



- 2 Touch the screen buttons to input the desired characters, and then touch “OK”.



- 3 Input characters will be reflected on the character input space.



- For details on operating the keyboard, see “INPUTTING LETTERS AND NUMBERS/LIST SCREEN OPERATION” on page 28.

INPUTTING A KEYWORD USING THE VOICE RECOGNITION FUNCTION

Voice recognition is a function that uses the center’s database to enable the use of the voice recognition function.

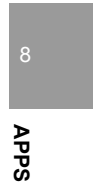
- 1 Touch the microphone screen button.



- 2 When this screen is displayed, say the desired keyword.



- Completion of saying the keyword will be detected automatically.



2. ENTUNE OPERATION

- 3 Search results will be displayed on the screen.



- The screen shown above is only an example. The actual screen may be different.

9

PERIPHERAL MONITORING SYSTEM

1 REAR VIEW MONITOR SYSTEM

1. REAR VIEW MONITOR SYSTEM	
OPERATION	318
AREA DISPLAYED ON SCREEN	320
THE REAR VIEW MONITOR	
SYSTEM CAMERA.....	320

PERIPHERAL MONITORING SYSTEM

2 ADVANCED PARKING GUIDANCE SYSTEM

1. INTRODUCTION 322
 ADVANCED PARKING GUIDANCE SYSTEM 322
 PRE-SUPPORT SWITCH 323

2. MANEUVERING WHEN PARKING 324
 MANEUVERING WHEN PARKING..... 324

3. PARKING ASSIST MODE (PERPENDICULAR PARKING)..... 330
 PARKING ASSIST MODE (PERPENDICULAR PARKING)..... 330
 PRE-SUPPORT FUNCTION 330
 EASY SET FUNCTION 331
 OPERATING PROCEDURE 333
 TIPS FOR SETTING THE TARGET PARKING POSITION..... 340

4. PARALLEL PARKING ASSIST MODE..... 344
 PARALLEL PARKING ASSIST MODE 344
 PRE-SUPPORT FUNCTION 344
 OPERATING PROCEDURE 345
 TIPS FOR SETTING THE TARGET PARKING POSITION..... 352

5. WHAT TO DO WHEN THIS SORT OF MESSAGE IS DISPLAYED 355
 WHAT TO DO WHEN THIS SORT OF MESSAGE IS DISPLAYED 355
 WHEN A RED FRAME IS DISPLAYED IN THE ASSIST MODE..... 359

6. MANUAL GUIDE LINE DISPLAY MODE 360
 EXAMPLE OF HOW TO USE THE SYSTEM WHEN PARKING (PERPENDICULAR PARKING) 360
 EXAMPLE OF HOW TO USE THE SYSTEM WHEN PARALLEL PARKING 365

7. USAGE PRECAUTIONS 366
 DRIVING PRECAUTIONS 366
 AREA DISPLAYED ON SCREEN..... 368
 THE ADVANCED PARKING GUIDANCE SYSTEM CAMERA 369
 DIFFERENCES BETWEEN THE DISPLAY AND THE ACTUAL ROAD..... 370
 WHEN A THREE-DIMENSIONAL OBJECT IS NEARBY 372
 SENSOR..... 373
 INITIALIZING THE SYSTEM 375

1
2
3
4
5
6
7
8
9

1. REAR VIEW MONITOR SYSTEM

1. REAR VIEW MONITOR SYSTEM OPERATION

The rear view monitor system assists the driver by displaying an image of the view behind the vehicle while backing up. The image is displayed in reverse on the screen. This reversed image is a similar image to the one on the inside rear view mirror.

- 1 To display the rear view image on the screen, shift the shift position to "R" when the "POWER" switch is in ON mode and the back door is completely closed.

- If you move the shift position out of the "R", the screen returns to the previous screen. Operating another function of the navigation system will display another screen.
- The rear view monitor system is a supplement device intended to assist back up. When backing up, be sure to check behind and all around the vehicle visually.

CAUTION

- Never depend on the rear view monitor 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 distance. If you back up while looking only at the screen, you may hit a vehicle, a person or an object. When backing up, be sure to check behind and all around the vehicle visually and with mirrors before proceeding.
- Do not use the system when the back door is not completely closed.
- 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.

**NOTICE**

- 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.
- Do not hit the camera or subject it to strong impact as this may cause its position and mounting angle to change.
- Do not strongly rub the camera lens. If the camera lens is scratched, it cannot transmit a clear image.
- Do not allow organic solvent, car wax, window cleaner or glass coat to adhere to the camera. If this happens, wipe it off as soon as possible.
- When replacing the tires, please consult your Toyota dealer. If you replace the tires, the area displayed on the screen may change.
- When washing the vehicle, do not apply intensive bursts of water to the camera or camera area. Doing so may result in the camera malfunctioning.

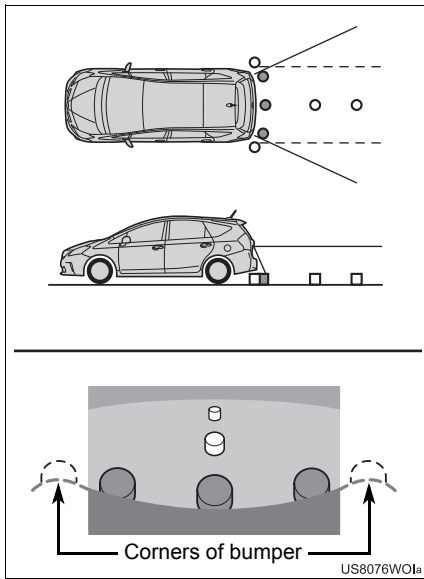
INFORMATION

- 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.

1. REAR VIEW MONITOR SYSTEM

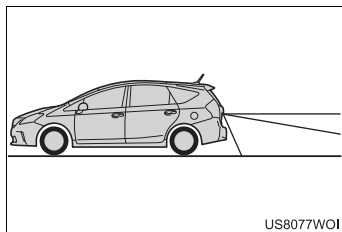
AREA DISPLAYED ON SCREEN

The image displayed on the screen is an approximation only.



INFORMATION

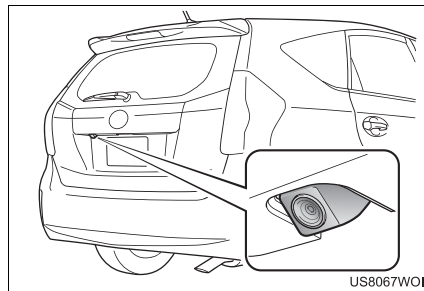
- The area detected by the camera is limited. The camera does not detect objects which are close to either corner of the bumper or under the bumper.



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

THE REAR VIEW MONITOR SYSTEM CAMERA

The rear view monitor system camera is located as shown in the illustration.



INFORMATION

- The camera uses a special lens. The distance of the image that appears on the screen differs from the actual distance.
- When the camera is used under fluorescent lights, sodium lights or mercury lights etc., the lights and the illuminated areas may appear to flicker.
- 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 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) is adhering to the camera
 - When the camera has scratches or dirt on it
 - When the sun or the beam of headlights is shining directly into the camera lens

INFORMATION

- If a bright light (for example, sunlight reflected off the vehicle body) is picked up by the camera, the smear effect* peculiar to the 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.

2. ADVANCED PARKING GUIDANCE SYSTEM


1. INTRODUCTION

ADVANCED PARKING GUIDANCE SYSTEM

The advanced parking guidance system helps back up parking by combining and displaying guide lines on 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.

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, and then disable the system by touching  on the screen.
- 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.

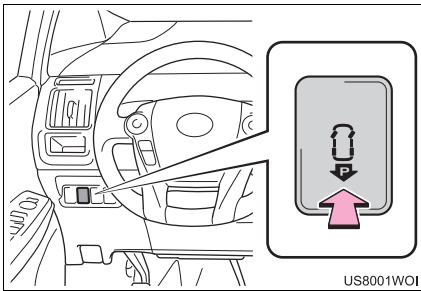
- As the system only assists with parking in a set target parking position, there are times when the system will be unable to render this assistance, depending on factors such as road surface or vehicle condition, or the distance to the set target parking position.

■ SELECTING A LANGUAGE

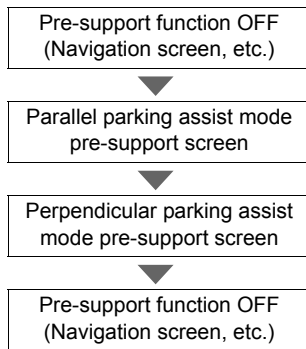
See “SELECTING A LANGUAGE” on page 46 for the procedure to select a language. Once you select a language, the advanced parking guidance system will indicate that language until you select another language.

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.



- Pressing 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.



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

2. ADVANCED PARKING GUIDANCE SYSTEM

2. MANEUVERING WHEN PARKING

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.

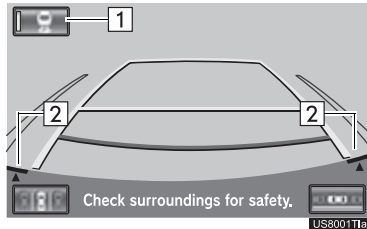
Also, when parking, be sure to check that the parking space will accommodate your vehicle before maneuvering into it.

CAUTION

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

TO ACTIVATE THE ADVANCED PARKING GUIDANCE SYSTEM

- 1 To activate the advanced parking guidance system, shift the shift position to "R" when the "POWER" switch is in ON mode and the back door is completely closed.
 - 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 press any of the mode buttons around the display, such as "MAP/VOICE" or "INFO/APPS", the screen will switch to that mode.

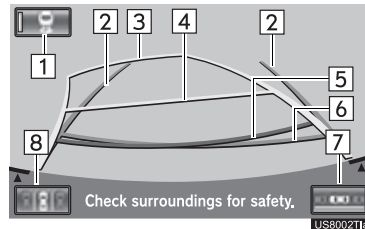


No.	Function
1	<p>Select button Touch to switch between the parking assist function and the parking guide line display function. The selected function will remain even after the hybrid system turns off and then restarts it.</p> <ul style="list-style-type: none"> The parking assist function assists the driver by automatically controlling the steering wheel when backing up, in order to park in the target parking position set on the screen. The parking guide line display function assists the driver by displaying an image of the area behind the vehicle while backing up. <p>When the parking assist function is selected, the select button is highlighted.</p>
2	<p>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.</p>

THE MODES OF THE PARKING ASSIST FUNCTION

The parking assist function has the parking assist mode and parallel parking assist mode. Use each mode according to need.

The guide lines are displayed on the screen.



No.	Function
1	<p>Select button Touch to switch between the parking assist function and the parking guide line display function. When the parking assist function is selected, the select button is highlighted.</p>
2	<p>Vehicle width extension guide lines These lines indicate the estimated vehicle width.</p>
3	<p>Estimated path guide lines These lines indicate the estimated path in which the vehicle moves backward. The lines move in sync with the steering wheel.</p>

2. ADVANCED PARKING GUIDANCE SYSTEM

No.	Function
4	<p>Distance guide line (yellow) The line moves, together with the estimated path guide lines, in sync with the steering wheel. This line indicates a position on the ground approximately 3 ft. (1 m) behind the rear bumper of the vehicle. When the steering wheel is turned, distance errors may occur.</p>
5	<p>Distance guide line (red) The line moves, together with the estimated path guide lines, in sync with the steering wheel. This line indicates a position on the ground approximately 1.5 ft. (0.5 m) behind the rear bumper of the vehicle. When the steering wheel is turned, distance errors may occur.</p>
6	<p>Distance guide line (blue) The line indicates a position on the ground approximately 1.5 ft. (0.5 m) behind the rear bumper of the vehicle.</p>
7	<p>Parallel parking assist mode button Touch to turn parallel parking assist mode on. See "PARALLEL PARKING ASSIST MODE" on page 344 for details.</p>

No.	Function
8	<p>Parking assist mode button Touch to turn parking assist mode on. See "PARKING ASSIST MODE (PERPENDICULAR PARKING)" on page 330 for details.</p>

INFORMATION

- The guide lines, buttons and camera orientation confirmation lines will not be displayed if the back door is open. To display them, close the back door completely.

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 355.

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

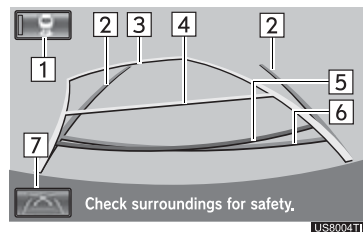
If the system is disabled while backing up, grip the steering wheel firmly and depress the brake pedal to bring the vehicle to a halt. The system has been completely disabled, so you may either start again from the beginning, or if you wish to finish parking manually, be sure to operate the steering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

THE MODES OF THE PARKING GUIDE LINE DISPLAY FUNCTION

The parking guide line display function has the following modes. Use each mode according to need.

ESTIMATED PATH GUIDANCE MODE

The guide lines are displayed on the screen.



No.	Function
1	Select button Touch to switch between the parking assist function and the parking guide line display function. When the parking assist function is selected, the select button is highlighted.
2	Vehicle width extension guide lines These lines indicate the estimated vehicle width.
3	Estimated path guide lines These lines indicate the estimated path in which the vehicle moves backward. The lines move in sync with the steering wheel.

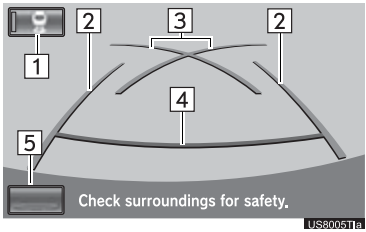
PERIPHERAL MONITORING SYSTEM

2. ADVANCED PARKING GUIDANCE SYSTEM

No.	Function
4	Distance guide line (yellow) The line moves, together with the estimated path guide lines, in sync with the steering wheel. This line indicates a position on the ground approximately 3 ft. (1 m) behind the rear bumper of the vehicle. When the steering wheel is turned, distance errors may occur.
5	Distance guide line (red) The line moves, together with the estimated path guide lines, in sync with the steering wheel. This line indicates a position on the ground approximately 1.5 ft. (0.5 m) behind the rear bumper of the vehicle. When the steering wheel is turned, distance errors may occur.
6	Distance guide line (blue) The line indicates a position on the ground approximately 1.5 ft. (0.5 m) behind the rear bumper of the vehicle.
7	Parking assist guide line display mode screen button Touch to turn parking assist guide line display mode on.

PARKING ASSIST GUIDE LINE DISPLAY MODE

The guide lines are displayed on the screen.

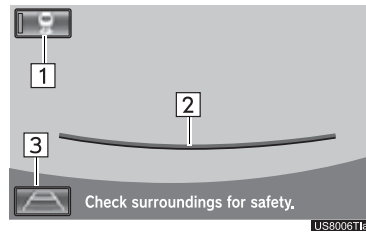


No.	Function
1	Select button Touch to switch between the parking assist function and the parking guide line display function. When the parking assist function is selected, the select button is highlighted.
2	Vehicle width extension guide lines These lines indicate the estimated vehicle width.
3	Parking assist guide lines These lines indicate the points at which you turn the steering wheel. These lines also indicate a estimated path for guidance when turning the smallest degree of the wheel while backing up.
4	Distance guide line This line indicates a position on the ground approximately 1.5 ft. (0.5 m) behind the rear bumper of the vehicle.

No.	Function
5	Course line deletion mode screen button Touch to turn course line deletion mode on.

COURSE LINE DELETION MODE

The guide lines are displayed on the screen.



No.	Function
1	Select button Touch to switch between the parking assist function and the parking guide line display function. When the parking assist function is selected, the select button is highlighted.
2	Distance guide line This line indicates a position on the ground approximately 1.5 ft. (0.5 m) behind the rear bumper of the vehicle.
3	Estimated path guidance mode screen button Touch to turn estimated path guidance mode on.

INFORMATION

- The guide lines and buttons will not display if the back door is open. To display them, close the back door completely.

2. ADVANCED PARKING GUIDANCE SYSTEM

3. PARKING ASSIST MODE (PERPENDICULAR PARKING)

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.

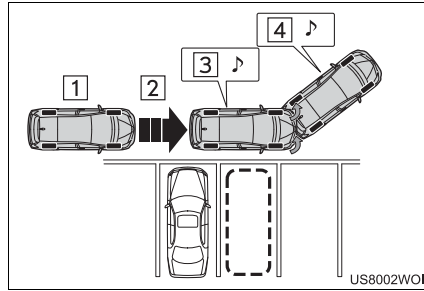
This mode can be used when the assist mode is ON.

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.

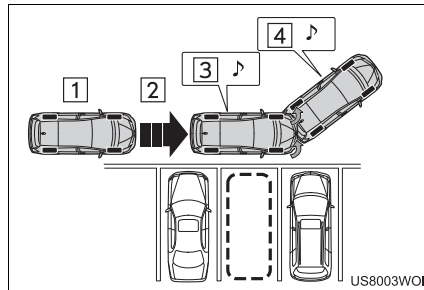
- Guidance will not be given if the detected space is narrow.

- ▶ Parking on the next side of another parked vehicle



- | | |
|---|--|
| 1 | Press 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 |

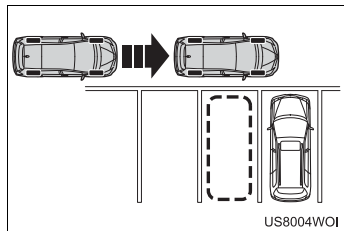
- ▶ Parking between two parked vehicles



- | | |
|---|--|
| 1 | Press 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).
- If only one vehicle is parked, the pre-support system cannot be used to park on the right side of the vehicle.



- The function cannot be used if the shift position is in "P" or "R", or if the vehicle speed is faster 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 faster than 9 mph (15 km/h) or until the function is turned off by pressing the pre-support switch.

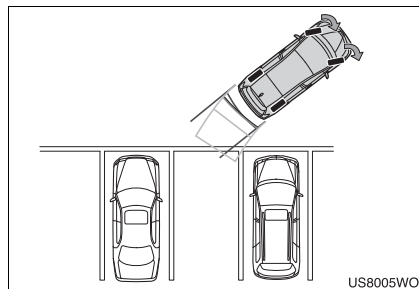
EASY SET FUNCTION

The easy set function can be used if the pre-support function is not in use.

If the parking space has a white outline, the easy set function can be used to commence parking without adjusting the target parking position.

This function has the following features:

1. When the shift position is in "R" and a white parking space outline has been detected, the target parking position can be minutely adjusted.
2. If a white parking space outline has not been detected under the conditions described in 1 above: by turning the steering wheel toward the desired parking space, a white parking space outline can be detected in that direction and set as the target parking position.



INFORMATION


- The easy set function will not operate in the following cases:
 - When the assist mode is OFF
 - When the pre-support function is in use
 - When parallel parking
- Under the following circumstances, a parking space outline may not be detected on the road and the easy set function may not operate:
 - The parking space does not have a white outline (roped or blocked parking spaces etc.)
 - 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. (yellow lines painted on concrete road surfaces, etc.)
 - 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.

INFORMATION

- Under the following circumstances, the target parking space may be mis recognized:
 - There are obstructions such as maintenance damage, road markings, poles etc.
 - During or after rain, when the road surface is wet and reflects light, or puddles have formed.
 - The color or brightness of the road surface is not uniform.
 - The parking space is on a slope
 - An effect is being caused by parked vehicle (the shadow, grill, sidestep etc. of a parked vehicle)
 - The lines are faded or dirty, making them unclear.
- Even in situations where the easy set function cannot be used (for example, when the parking space outline is missing or difficult to detect), the target parking position can still be set by touching the Parking assist mode button.

OPERATING PROCEDURE

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.

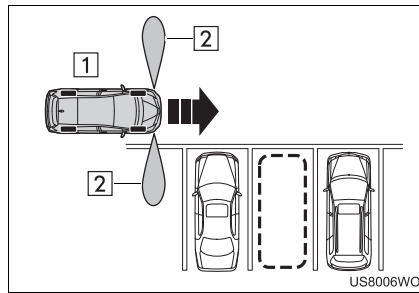
If a message is displayed while maneuvering, follow the procedures outlined in "WHAT TO DO WHEN THIS SORT OF MESSAGE IS DISPLAYED" on page 355.

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.

WHEN THE PRE-SUPPORT FUNCTION IS IN USE

- 1 Check that the assist mode switch is ON.
- 2 With the vehicle speed at less than 9 mph (15 km/h) and the vehicle on the near side of the parking space, press the pre-support switch twice. Confirm that the display has switched to the "Back-In Mode" screen.

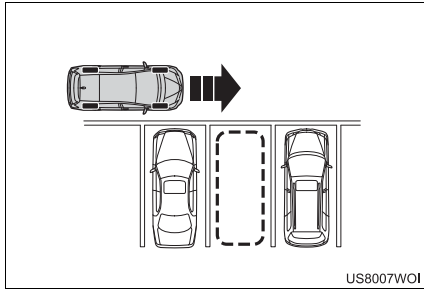


1 Press the pre-support switch twice

2 Sensor detection range

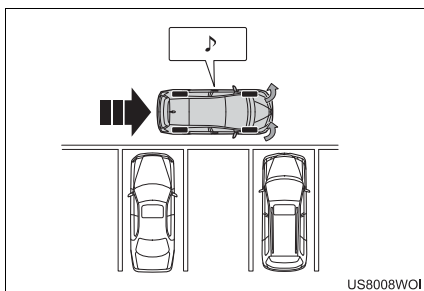
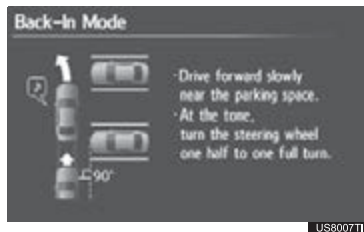
- The mode will switch with each press of the pre-support switch.
- If the shift position is in "P" or if the vehicle speed is 9 mph (15 km/h) or above, two beeps will sound when the pre-support switch is pressed, and the display will not change. (If the shift position is in "R", the display will not change.)

- 3** Move the vehicle to a position perpendicular to the parking space, and as close as possible to the parked vehicle.



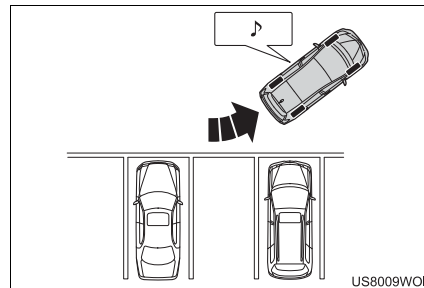
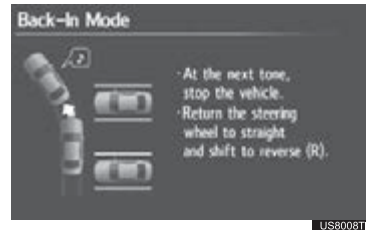
- Move the vehicle forward as slowly as possible so that the steering wheel can be turned as soon as the chime sounds.
- To cancel the guidance function, turn off the pre-support function by pressing the pre-support switch once.

- 4** As soon as the chime sounds, rotate the wheel halfway or more and proceed forwards.



- The chime sounds when the center of the parking space can be seen directly beside the vehicle.

- 5** When two chimes sound, stop the vehicle and straighten the steering wheel.



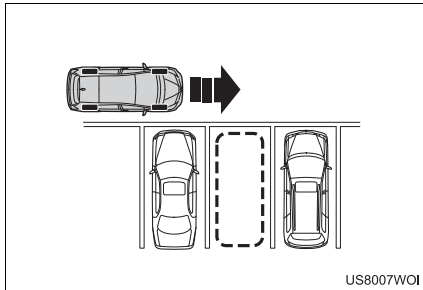
- Move the vehicle forward as slowly as possible after turning the steering wheel so that the vehicle can be stopped as soon as the two chimes sound.
- The chimes will not sound if the vehicle does not arrive in a backing-up position after the steering wheel has been maneuvered. If the vehicle is stopped and the shift position is shifted to "R" before the chimes sound, the screen shown in step 6 of "WHEN THE PRE-SUPPORT FUNCTION IS NOT IN USE" on page 335 is displayed.

- 6** Shift to "R".

- For operation after shifting to "R":
 - ➔ See step 7 of "WHEN THE PRE-SUPPORT FUNCTION IS NOT IN USE" on page 335.

**WHEN THE PRE-SUPPORT
FUNCTION IS NOT IN USE**

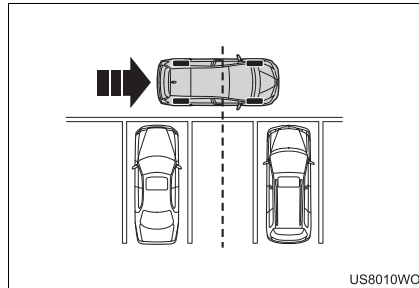
- 1 Check that the assist mode switch is ON.
- 2 Move your vehicle slowly to a position perpendicular to the parking space, and as close as possible to the parking space.



- 3 Move your vehicle to a position where you can see the center of the parking space right besides you.

- ▶ If only a vehicle is parked on one side of the parking space or two vehicles are parked on both sides of the parking space

Move your vehicle to a position from which the exact center of the parking space can be seen beside you before beginning to turn the steering wheel.

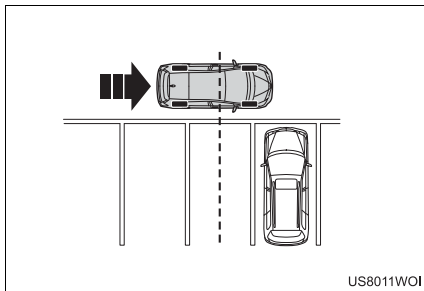


- Positioning the vehicle perpendicular to the parking space allows the angle of the parking position to be identified easily.
- To facilitate the setting of the target parking position, the front side sensors detect the vehicles parked at the left and right of the parking space and identify the target parking position.

2. ADVANCED PARKING GUIDANCE SYSTEM

- ▶ If no vehicle or small vehicles are parked on both sides of the desired parking space

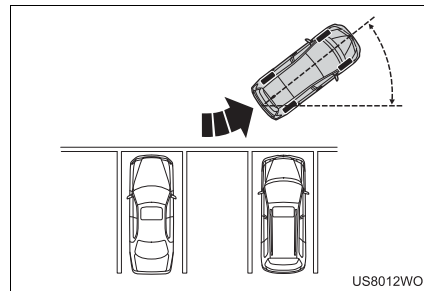
Move your vehicle to a position from which the exact center of the parking space can be seen beside you, straighten the steering wheel and stop the vehicle.



- 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 (blue or red frame) in the position used last time the parking assist mode was activated.

- 4 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.

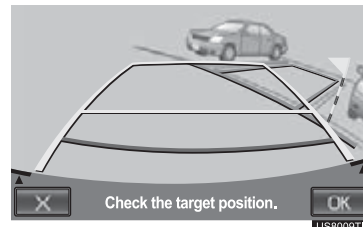


- 5 Shift to "R".

- 6 Conduct the following operation.


- ▶ If a parking position has been identified by the easy set function

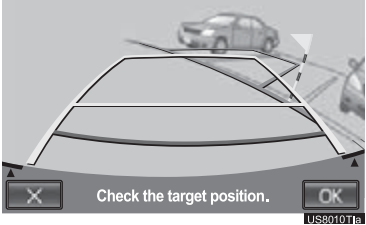
Confirm that the blue frame is aligned with the space you wish to park in and touch "OK".



- After touching "OK":
 - ➔ Go to step 8
- To change the parking position:
 - ➔ Touch then , then go to step 7

NOTICE

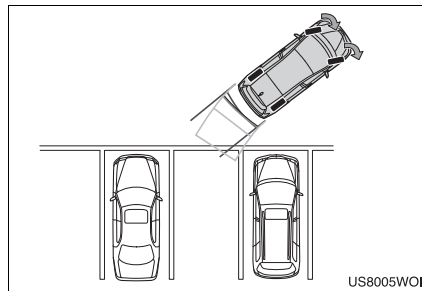
- If the blue frame or a warning flag is over a parked vehicle, or the target parking position has been otherwise misrecognized, touch  to cancel and change the parking position.




For the warning flag and blue frame, see the CAUTION section of step 7.

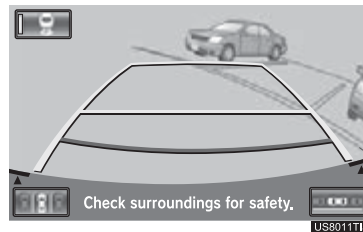
▶ If a parking position hasn't been identified using the easy set function

Turn the steering wheel toward the direction in which you wish to park.




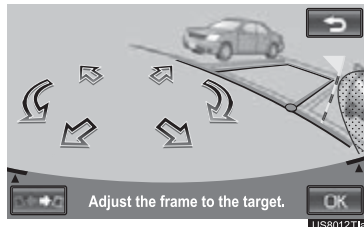
- If a target parking position can be identified, the screen will switch to the screen shown in "If a parking position has been identified by the easy set function". (See page 336.)

- If a parking position is not identified and the screen does not change, touch  and then go to step 7.



7 Use the arrow to align the blue frame with the desired parking space, then touch “OK”.

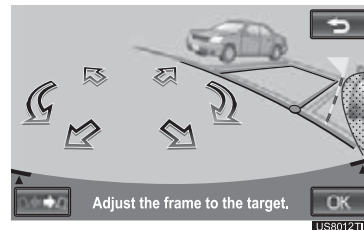
- You can also move the blue frame by touching the screen (area other than the arrow).
- There are tricks to align the blue frame. See “TIPS FOR SETTING THE TARGET PARKING POSITION” on page 340.
- If the orientation of the frame is opposite to that of the target parking space:
→ Touch .
- Areas in which 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 359.
- When the blue 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.
- There may be times when, due to image distortion, the blue 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.

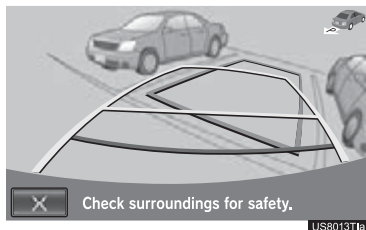
CAUTION


- The warning flag is only a guide. Be sure to directly check your surroundings and behind the vehicle for safety, and back up carefully.
- Always check that there are no obstacles in the blue 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 blue 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.




- 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.

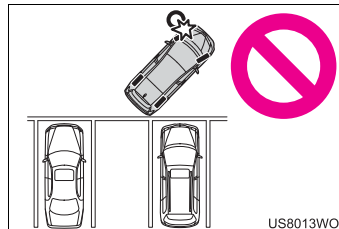
- 8 Position yourself as you would when backing up normally, and rest your hands on the steering wheel without applying any pressure. Check your surroundings and behind the vehicle for safety, and slowly back up, using the brake pedal to control the vehicle's speed.



- If you touch , assistance is canceled.
- If the vehicle's backing up speed is too fast, a warning tone will sound and the message "!! Vehicle is moving 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 blue frame displayed on the screen is approximately the same size as your vehicle. (The blue frame displayed when setting the target parking position is the size of a normal parking space.)

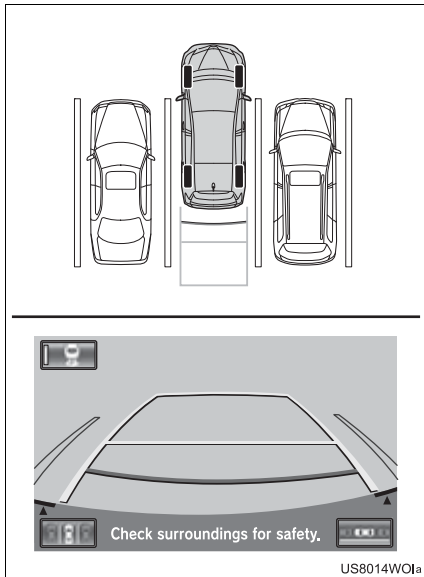
CAUTION

- 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.



2. ADVANCED PARKING GUIDANCE SYSTEM

- 9 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.
- Using the distance guide line as a reference, 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 (blue frame)

THE DISPLAY POSITION OF THE BLUE FRAME

The system decides the initial positioning of the blue 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.

INFORMATION

- 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.

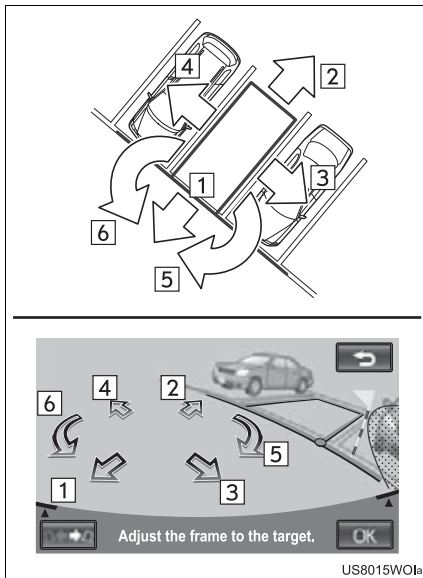
If the point at which you stop is correctly identified, the blue frame will display the parking space accurately. If the white lines of the parking space have not been correctly identified, the blue frame will not match the parking space even if you stop in the correct location. In this case, adjust the point at which you stop as needed.

ALIGNING THE BLUE FRAME

There are two ways to align the blue 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

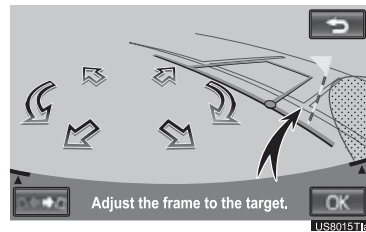
By touching the arrows displayed on the screen, you can move the blue frame.



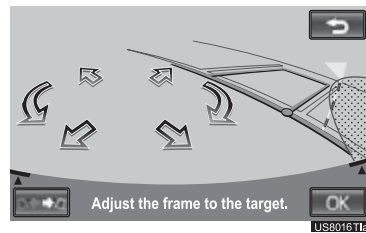
DIRECTLY TOUCHING THE TARGET POINT

By touching the point you wish to move the frame to, you can move the blue frame.

- 1 Touch the front edge of the place you wish to move.



- 2 The frame will be moved as shown.

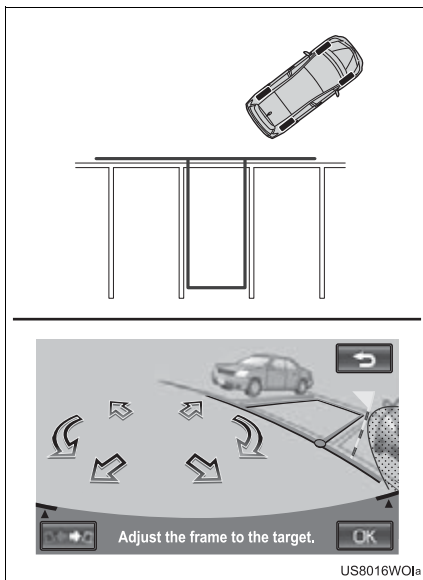


INFORMATION

- If you touch the following areas, the blue frame will not move:
 - The area surrounding the arrows.
 - The area near the lower 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 BLUE FRAME DO NOT MATCH

If the lines of the parking space are wider than the blue frame, position the frame so that the difference between the frame and the parking space lines is equal on both sides.



2. ADVANCED PARKING GUIDANCE SYSTEM

4. PARALLEL PARKING ASSIST MODE

PARALLEL PARKING ASSIST MODE

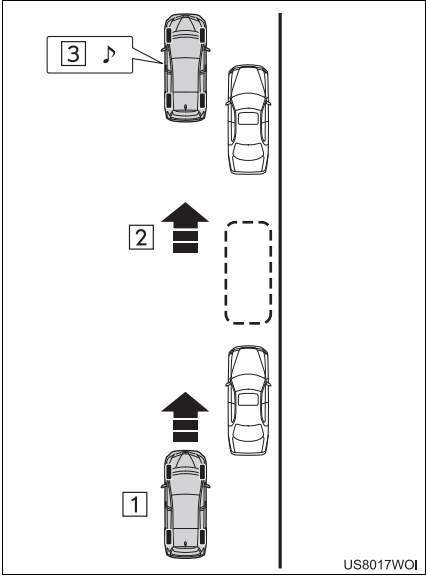
Parallel parking assist mode assists the driver with parallel parking by automatically controlling the steering wheel when backing up, in order to park in the target position set on the screen. This mode can be used when the assist mode is ON.

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.

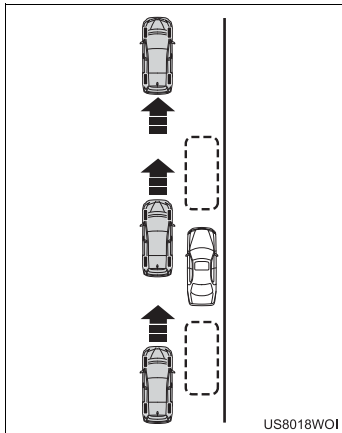
PARKING BETWEEN TWO VEHICLES



- | | |
|---|--|
| 1 | Press 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 faster 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 faster than 9 mph (15 km/h) or until the function is turned off by pressing the pre-support switch.

OPERATING PROCEDURE**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 355.

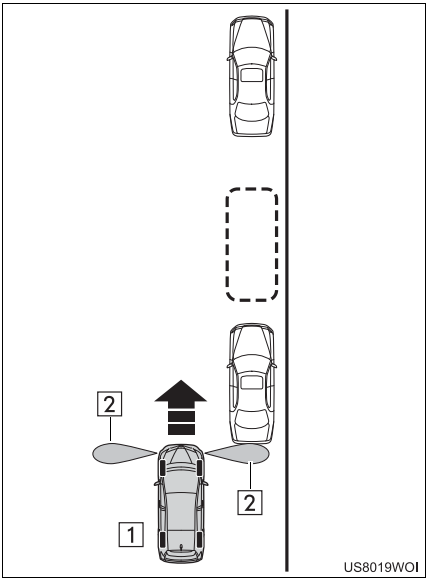
The illustrations here describe the procedure for pulling into a parking space on the right. For pulling into a parking space on the left, substitute left for right and vice versa in all steps.

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

2. ADVANCED PARKING GUIDANCE SYSTEM

WHEN THE PRE-SUPPORT FUNCTION IS IN USE

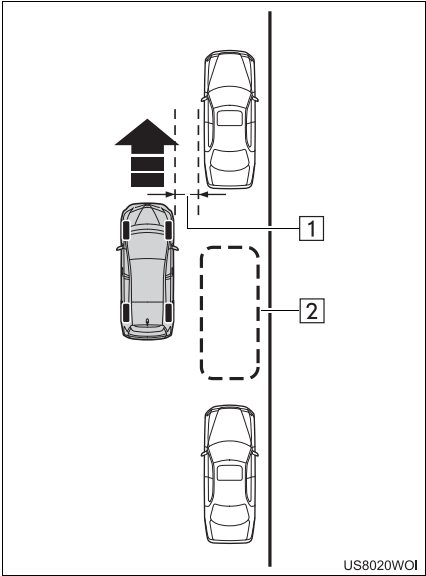
- 1 Check that the assist mode switch is ON.
- 2 With the vehicle speed at less than 9 mph (15 km/h) and the vehicle on the near side of the parking space, press the pre-support switch once. Confirm that the display has switched to the "Parallel Parking Mode" screen.



1	Press the pre-support switch once
2	Sensor detection range

- The mode will switch with each press of the pre-support switch.
- If the shift position is in "P" or if the vehicle speed is 9 mph (15 km/h) or above, two beeps will sound when the pre-support switch is pressed, and the display will not change. (If the shift position is in "R", the display will not change.)

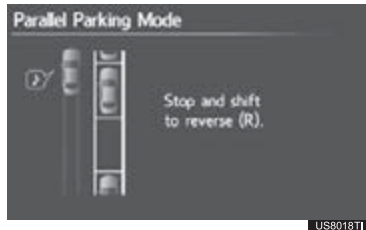
- 3 Move the vehicle to a position parallel to the road (or road shoulder) that is also approximately 3 ft. (1 m) away from the parked vehicle, and then proceed straight forward.



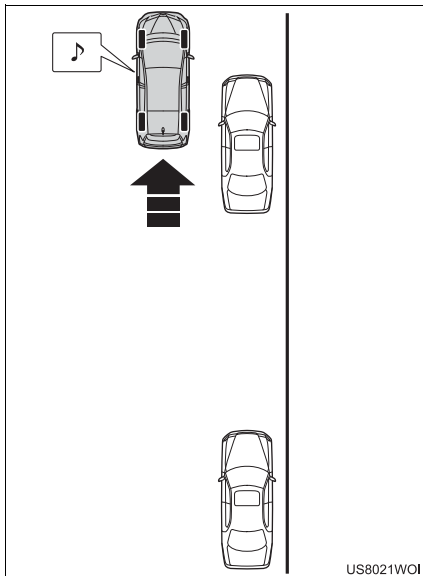
1	Approx. 3 ft. (1 m)
2	Desired parking location

- To cancel the guidance function, turn off the pre-support function by pressing the pre-support switch twice.

- 4** Stop the vehicle when two chimes sound.

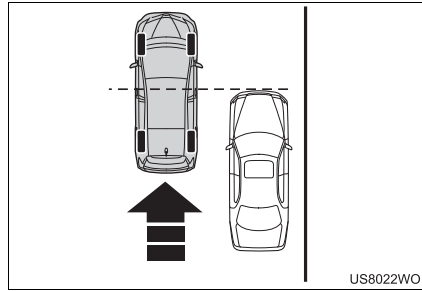


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- Two chimes sound when the vehicle reaches a position from which the front edge of the leading parked vehicle can be seen alongside.



US8022W0I

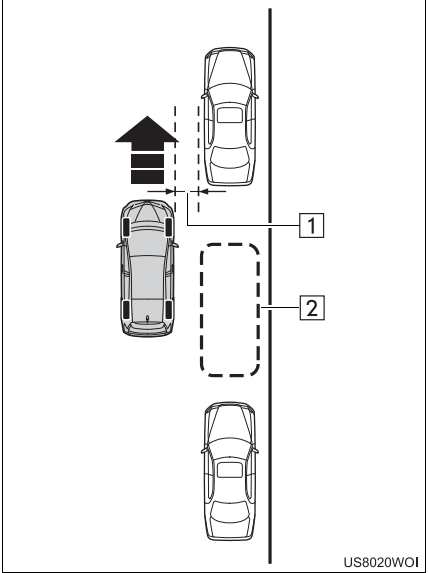
- Move the vehicle forward as slowly as possible so that the vehicle can be stopped as soon as the two chimes sound.
- The chimes will not sound if the vehicle does not arrive in a backing-up position. If the vehicle is stopped and the shift position is shifted to "R" before the chimes sound, the screen shown in step 5 of "WHEN THE PRE-SUPPORT FUNCTION IS NOT IN USE" on page 348 is displayed.

5 Shift to "R".

- For operation after shifting to "R"
 - ➔ See step 6 of "WHEN THE PRE-SUPPORT FUNCTION IS NOT IN USE" on page 348.

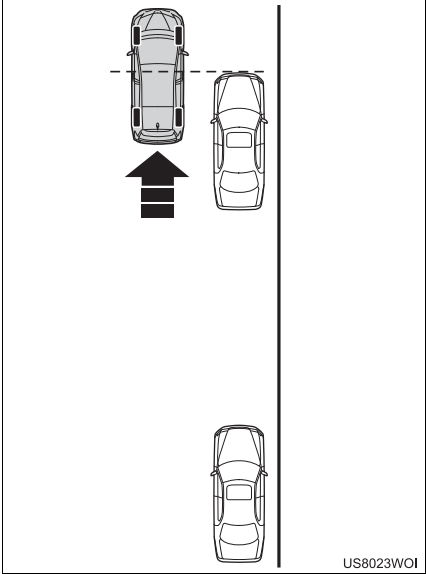
WHEN THE PRE-SUPPORT FUNCTION IS NOT IN USE

- 1 Check that the assist mode switch is ON.
- 2 Move your vehicle slowly to a position parallel to the road or shoulder approximately 3 ft. (1 m) away from parked vehicles.




1	Approx. 3 ft. (1 m)
2	Desired parking location

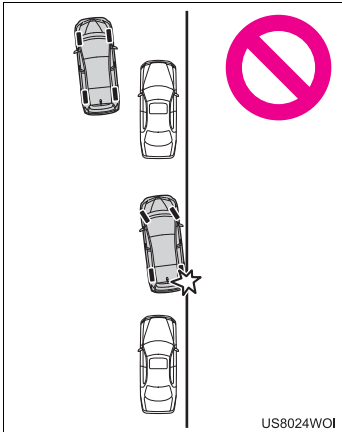
- 3 Stop your vehicle in a position where you can see the front edge of the leading parked vehicle right beside you, with the steering wheel straight.



- 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.
- If there is no leading parked vehicle, the system will display the target parking position (blue or red frame) in the position used last time the parallel parking assist mode was activated.

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.




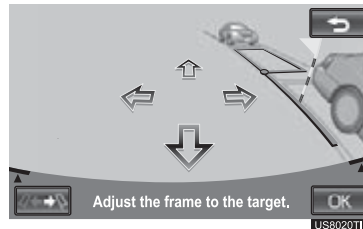
4 Shift to "R".

5 Touch  on the screen.



6 Use the arrow to align the blue frame with your target parking space, and touch "OK".

- You can also move the blue frame by touching the screen (area other than the arrows).
- There are tricks to align the blue frame. See "TIPS FOR SETTING THE TARGET PARKING POSITION" on page 352.
- If the orientation of the frame is opposite to that of the target parking space:
 - Touch .

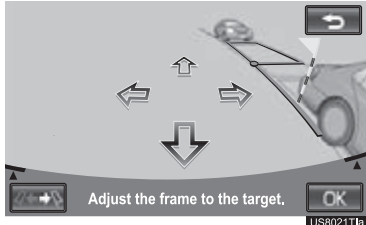


- If the frame is displayed in red, you cannot use the parallel parking assist mode to park in that location. See "WHEN A RED FRAME IS DISPLAYED IN THE ASSIST MODE" on page 359.
- When the blue frame is displayed, if you begin backing up without touching "OK", the message "Parking position has not been 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.
- There may be times when, due to image distortion, the blue frame does not match the parking space lines on the road surface. In this case, use the warning flag and blue extension guide line to set the target parking position.

CAUTION


- The warning flag is only a guide. Be sure to directly check your surroundings and behind the vehicle for safety, and back up carefully.
- Always check that there are no obstacles in the blue 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 blue 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 blue frame overlaps the shoulder.

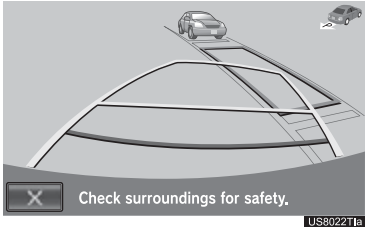



- If the road surface has level variations or a gradient between the starting position and target parking position, it will not be possible to correctly set the location, which may cause the parking position to be misaligned or crooked. In this case, do not use the parallel parking assist mode.

CAUTION


- When the shift position has been shifted to R (as in step 4 of “WHEN THE PRE-SUPPORT FUNCTION IS NOT IN USE”), if the perpendicular parking assist mode screen on page 335 has been switched to via the easy set function, touch  to cancel.

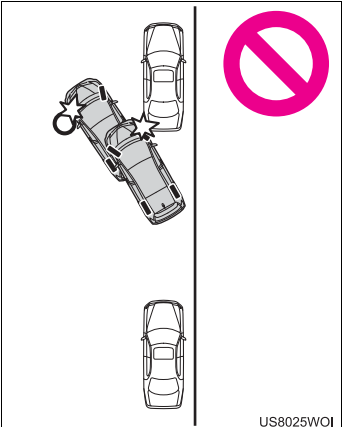
7 Position yourself as you would when backing up normally, and rest your hands on the steering wheel without applying any pressure. Check your surroundings and behind the vehicle for safety, and slowly back up, using the brake pedal to control the vehicle's speed.



- If you touch , assistance is canceled.
- If the vehicle's backing up speed is too fast, a warning tone will sound and the message “! Vehicle is moving 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 blue frame displayed on the screen is approximately the same size as your vehicle. (The blue frame displayed when setting the target parking position is the size of a normal parking space.)

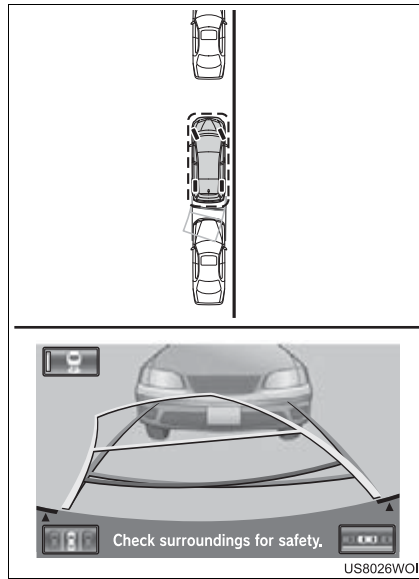
CAUTION

- 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.



US8025W01

- 8 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.
- Using the distance guide line as a reference, check in front and behind the vehicle visually and check with the mirrors while backing up.

2. ADVANCED PARKING GUIDANCE SYSTEM

TIPS FOR SETTING THE TARGET PARKING POSITION

Useful information for setting the target parking position (blue frame)

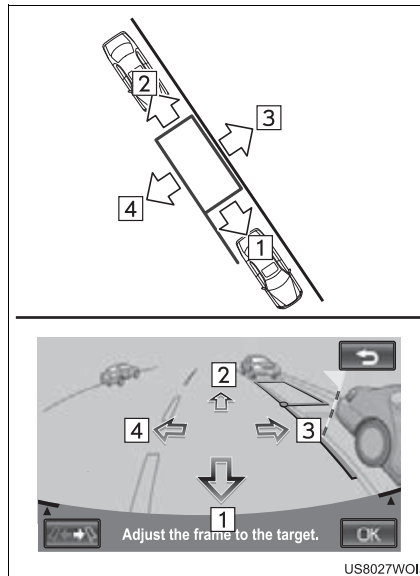
ALIGNING THE BLUE FRAME

There are two ways to align the blue 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 blue frame.

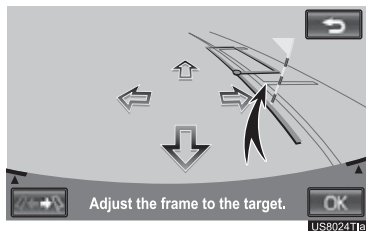
- Adjusting the left-right alignment first will make subsequent alignment easier.



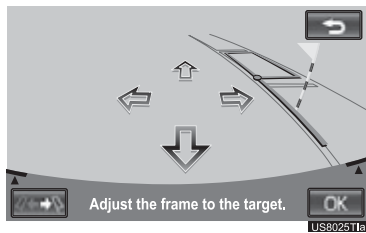
DIRECTLY TOUCHING THE TARGET POINT

By touching the point you wish to move the frame to, you can move the blue frame.

- 1 Touch the front edge of the place you wish to move.



- 2 The frame will be moved as shown.

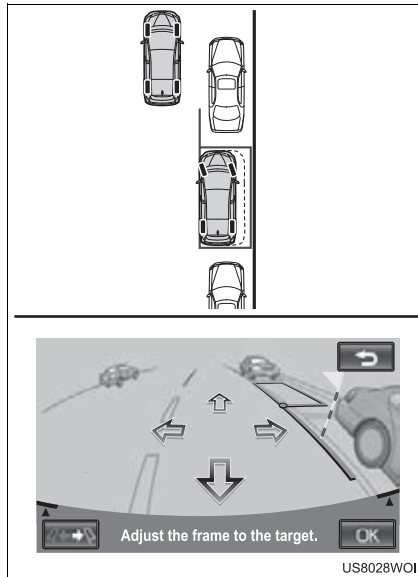


INFORMATION

- If you touch the following areas, the blue frame will not move:
 - The area surrounding the arrows.
 - The area near the lower 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.

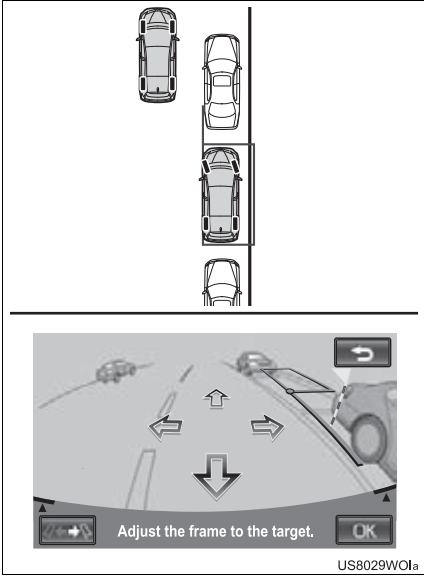
IF THERE IS A SLOPE IN THE ROAD

The assisted parking position will move left or right of the set target parking position.




2. ADVANCED PARKING GUIDANCE SYSTEM

In this case, if you align the warning flag with the rear of the forward parked vehicle, and the blue 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.)



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 .

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2. ADVANCED PARKING GUIDANCE SYSTEM

5. WHAT TO DO WHEN THIS SORT OF MESSAGE IS DISPLAYED

WHAT TO DO WHEN THIS SORT OF MESSAGE IS DISPLAYED

Message	Cause	What to do
"! Check APGS. Have your vehicle checked by a dealer."	There is a malfunction in the system.	Have your vehicle checked by your Toyota dealer.
"! APGS can only be used on a flat surface."	<ul style="list-style-type: none"> • 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.
"! APGS cannot assist under the 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 is 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 the parking brake."	The parking brake has been applied.	Release the parking brake.

2. ADVANCED PARKING GUIDANCE SYSTEM

Message	Cause	What to do
"! Too much force is being applied to the steering wheel."	You are exerting too much pressure on the steering wheel.	Loosen your grip on the steering wheel.
"Steering position is not straight. Turn the steering wheel to left (or right)."	The steering wheel is not straight.	Straighten the steering wheel.
"! Parking position has not been set."	You have begun to back up without touching "OK".	Stop the vehicle and touch "OK".
"! Vehicle is moving 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.
"! APGS 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 is 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 the parking sonar sensors."	In extreme cold weather or foreign matter gets on the sensors.	Have the vehicle checked by your Toyota dealer.
"APGS will start after backing up slightly."	The vehicle is too far away from the parking space.	Reverse straight from this location until two beeps sound.

2. ADVANCED PARKING GUIDANCE SYSTEM

Message	Cause	What to do
"A parking position could not be identified."	A potential parking space has not been detected by the sensor.	Use the pre-support function in an area with parking spaces.
"The space is not large enough to use APGS."	The sensor has detected a small parking space, and parking by APGS cannot be carried out.	Use the pre-support function in an area with a larger parking space.
"APGS is not available from this position."	The easy set function cannot be used from this location.	Move to a location from which parking can commence.
"! APGS has been cancelled."	The speed at which the vehicle is moving forward is too fast.	Reduce the speed a little more and use the pre-support function.
"The back door is open. Do not use the backup camera unless back door is completely closed."	The back door is open.	Close the back door completely.

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. Have your vehicle checked by a dealer."	(One chime)	(Two beeps) The guidance has been canceled.
"! APGS cannot assist under the current conditions."	—	(Two beeps) The guidance has been canceled.
"! APGS is not available now."	(One chime)	(Two beeps) The guidance has been canceled.
"! Release the parking brake."	(One chime)	(Two beeps) The guidance has been canceled.
"! Parking position has not been set."	(One chime)	—
"! Vehicle is moving too fast."	—	(Several beeps and then two beeps) The guidance has been canceled.
"! APGS canceled by user operation."	—	(Two beeps) The guidance has been canceled.

For the adjustment of the volume, ask your Toyota dealer.

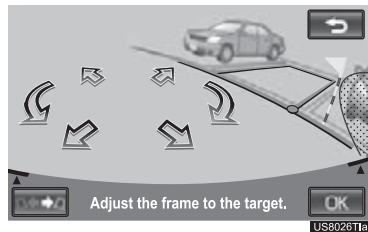
WHEN A RED FRAME IS DISPLAYED IN THE ASSIST MODE

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 blue, if you move the frame to a location unsuitable for parking using the assist mode, the frame will change to red.



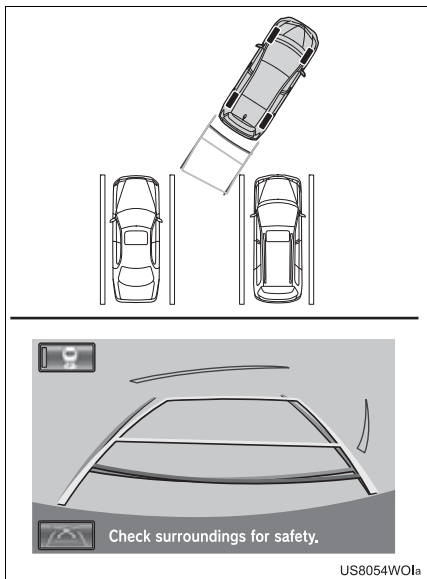
2. ADVANCED PARKING GUIDANCE SYSTEM




6. MANUAL GUIDE LINE DISPLAY MODE

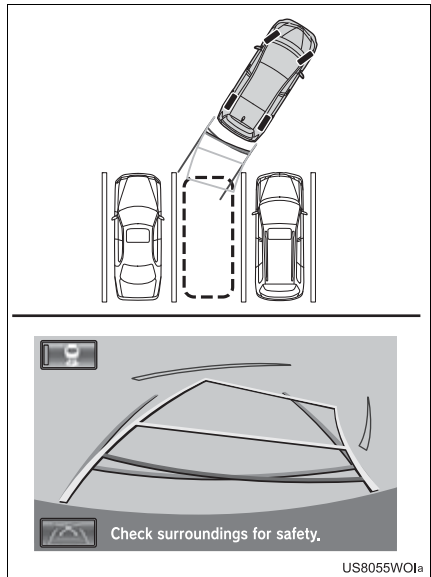
EXAMPLE OF HOW TO USE THE SYSTEM WHEN PARKING (PERPENDICULAR PARKING)

ESTIMATED PATH GUIDANCE MODE

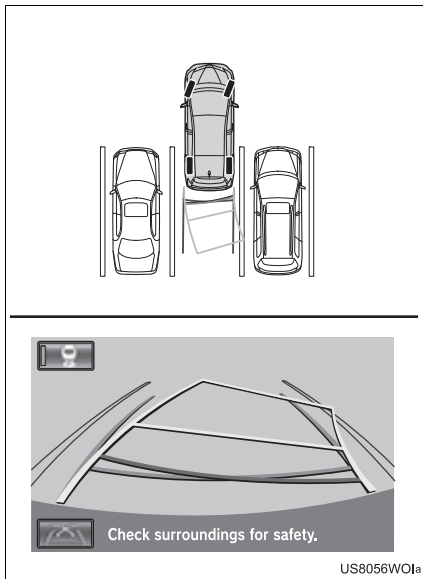
The following example describes the procedure for pulling into a parking space on the left. For pulling into a parking space on the right, substitute right for left and vice versa in all steps.



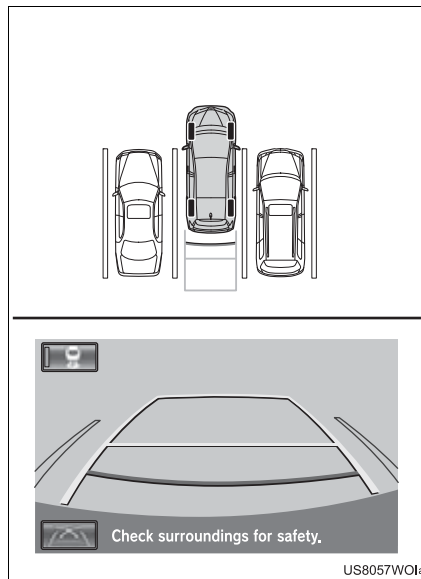
- 1 Shift to "R".
 - If the system is in the assist mode on:
 - ➔ Touch  on the screen.
 - If the system is not in the estimated path guide line display:
 - ➔ Touch  or  on the screen.
- 2 While referring to the screen and mirrors, back into the parking space.
- 3 Turn the steering wheel so that the estimated path guide lines are within the parking space, and back up carefully.



- 4** When the vehicle is within the parking space, turn the steering wheel so that the vehicle width extension guide lines and the clearance to the left and right of the parking space are about the same near the vehicle. Back up slowly.

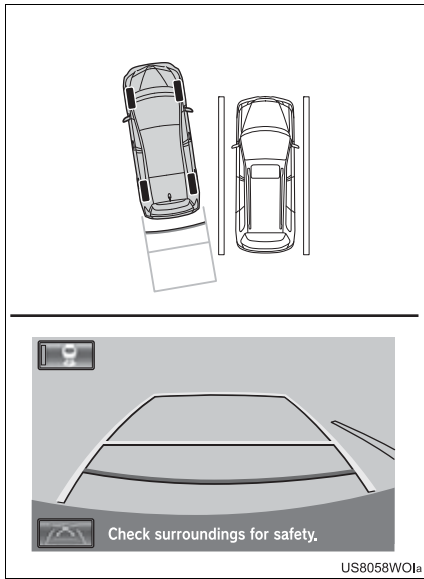


- 5** Turn the steering wheel so that the vehicle width extension guide lines are parallel with the parking space lines. When the lines are parallel, straighten the steering wheel and back up slowly.
- Even if the distance guide line and the parking space rear edge appear to be parallel on the screen, in reality they may not be parallel.



2. ADVANCED PARKING GUIDANCE SYSTEM

- When there is only one line dividing the spaces in a parking lot, even if the vehicle width extension guide lines and the parking space right side (left side) appear to be parallel on the screen, in reality they may not be parallel.

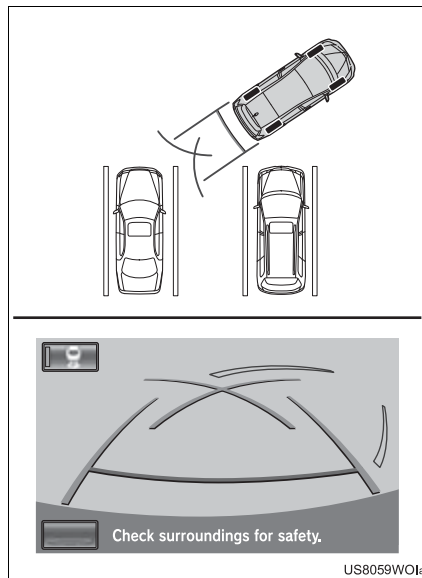





INFORMATION

- The guide lines and buttons will not display if the back door is open. To display them, close the back door completely.

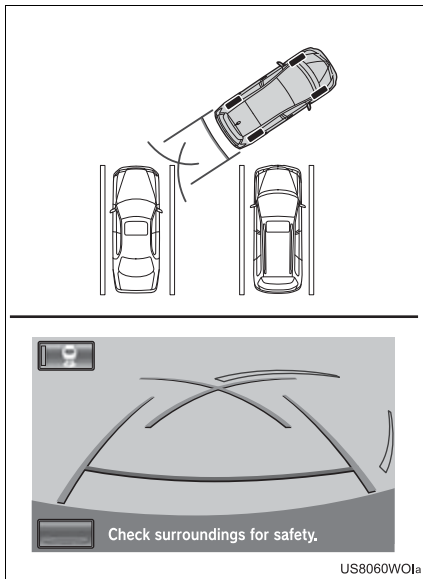
PARKING ASSIST GUIDE LINE DISPLAY MODE

The following example describes the procedure for pulling into a parking space on the left. For pulling into a parking space on the right, substitute right for left and vice versa in all steps.

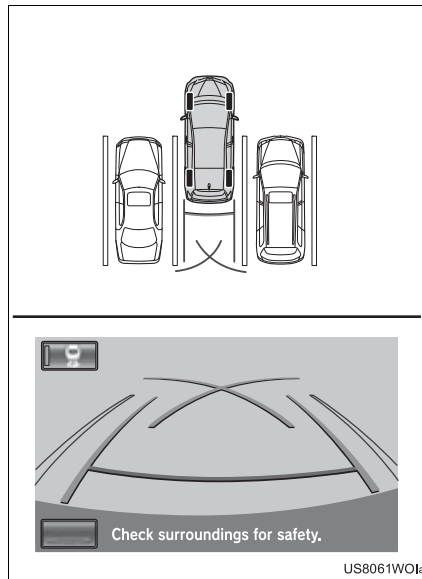


- 1 Shift to "R".
 - If the system is in the assist mode on:
 - ➔ Touch  on the screen.
 - If the system is not in the parking assist guide line display:
 - ➔ Touch  or  on the screen.
- 2 While referring to the screen and mirrors, back into the parking space.

- 3** Back up until the parking assist guide-lines meet the left edge of the parking space. Stop the vehicle, turn the steering wheel all the way to the right, and back up the vehicle to park.
- The point at which turn the steering wheel depends on the width of the parking space.

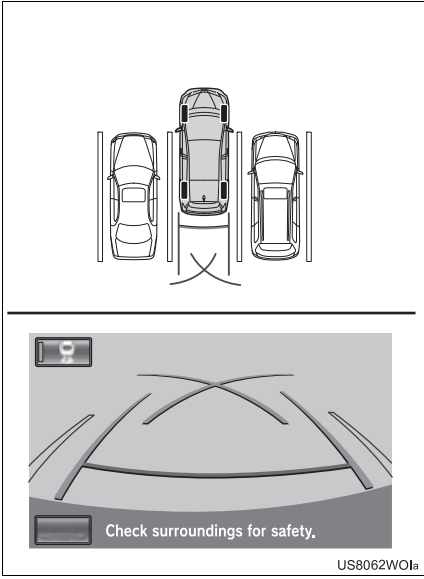


- 4** When the vehicle is within the parking space, turn the steering wheel so that the vehicle width extension guide lines and the clearance to the left and right of the parking space are about the same near the vehicle. Back up slowly.

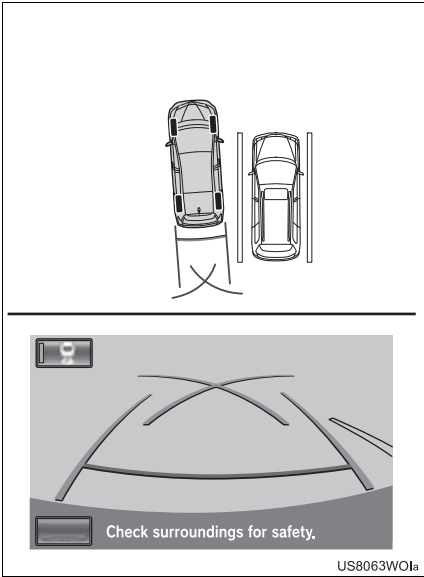


2. ADVANCED PARKING GUIDANCE SYSTEM

- 5 Turn the steering wheel so that the vehicle width extension guide lines are parallel with the parking space lines. When the lines are parallel, straighten the steering wheel and back up slowly.
- Even if the distance guide line and the parking space rear edge appear to be parallel on the screen, in reality they may not be parallel.



- When there is only one line dividing the spaces in a parking lot, even if the vehicle width extension guide lines and the parking space right side (left side) appear to be parallel on the screen, in reality they may not be parallel.



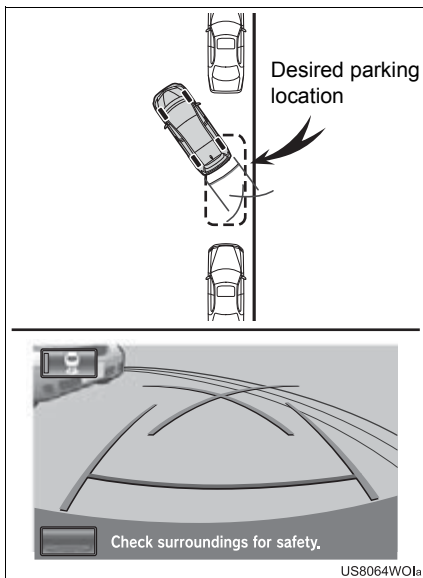
INFORMATION

- The guide lines and buttons will not display if the back door is open. To display them, close the back door completely.

EXAMPLE OF HOW TO USE THE SYSTEM WHEN PARALLEL PARKING

The following example describes the procedure for pulling into a parking space on the right. For pulling into a parking space on the left, substitute left for right and vice versa in all steps.

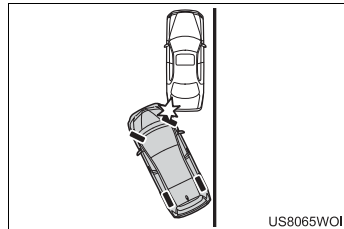
- 1 Shift to "R".



- 2 Back up until the parking assist guide lines meet the edge of the desired parking location. Turn the steering wheel all the way to the left and back up slowly.
- 3 When the vehicle is parallel with the shoulder of the road, straighten the steering wheel and back up slowly.

NOTICE

- When backing up, do not forget to pay attention to the front and back up slowly, so as not to hit any vehicle parked in front with the front corner of your vehicle.




PERIPHERAL MONITORING SYSTEM


7. USAGE PRECAUTIONS

DRIVING PRECAUTIONS

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.

CAUTION

- 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.

⚠ CAUTION

- 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 blue 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 the system when the back door is not completely closed.

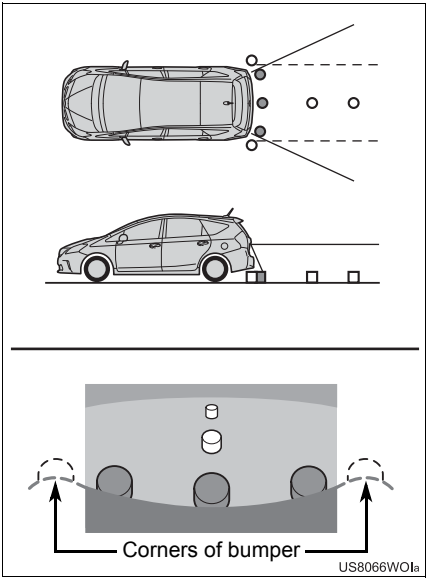
⚠ CAUTION

- 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

If there is a large difference between the set parking space and the vehicle position in any situations other than those above, consult with your Toyota dealer.
- 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.

AREA DISPLAYED ON SCREEN

The image displayed on the screen is an approximation only.

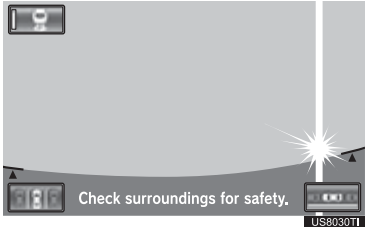


INFORMATION

- The area displayed on the screen may vary according to vehicle orientation or road conditions.
- 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 camera uses a special lens. The distance of the image that appears on the screen differs from the actual distance.

INFORMATION

- 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.



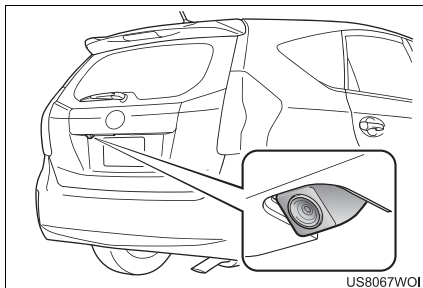
*: Smear effect
 A phenomenon that occurs when a bright light (for example, sunlight reflected off the vehicle body) is picked up by the camera; when transmitted by the camera, the light source appears to have a vertical streak above and below it.

INFORMATION

- When the camera is used under fluorescent lights, sodium lights or mercury lights etc., the lights and the illuminated areas may appear to flicker.
- 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.

THE ADVANCED PARKING GUIDANCE SYSTEM CAMERA

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

**CAUTION**

- If you do not observe the following precautions, the advanced parking guidance system may not operate correctly, possibly leading to an accident:
 - 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 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 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 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.
 - 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.

2. ADVANCED PARKING GUIDANCE SYSTEM

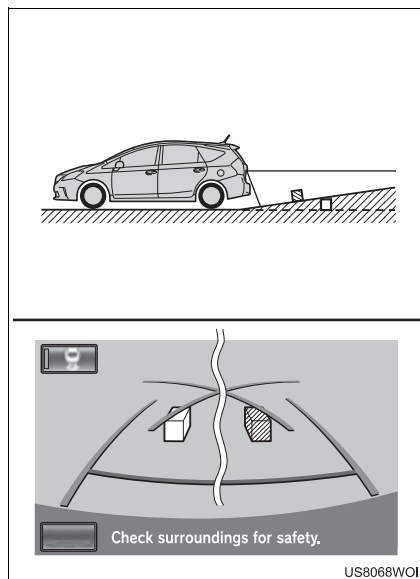
NOTICE

- When replacing the tires, please consult any your Toyota dealer. If you replace the tires, the position of the guide lines displayed on the screen may change.
- Do not hit the camera or subject it to strong impact as this may cause its position and mounting angle to change.
- When washing the vehicle, do not apply intensive bursts of water to the camera or camera area. Doing so may result in the camera malfunctioning.

DIFFERENCES BETWEEN THE DISPLAY AND THE ACTUAL ROAD

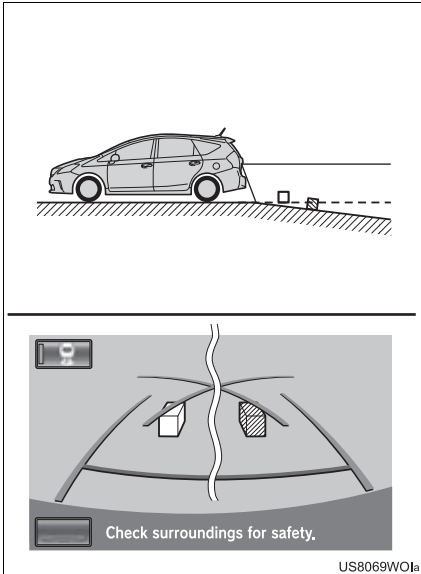
In any of the following situations, there is a margin of error between the set target parking position and guide lines on the screen, and the actual distance/course on the road.

WHEN THE GRADE BEHIND THE VEHICLE SLOPES UP SHARPLY



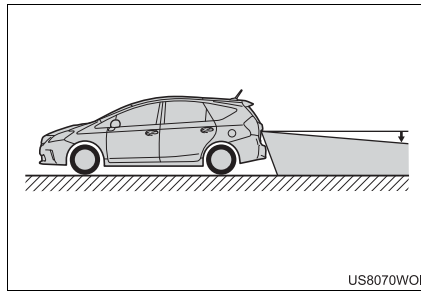
Objects appear to be farther away than they actually are.

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 and guide lines on the screen, and the actual distance/course on the road.

WHEN A THREE-DIMENSIONAL OBJECT IS NEARBY

The guide on the screen targets a flat-surfaced object (road etc).
When a three-dimensional object which juts out (an obstacle such as a truck bed) is nearby, observe the following precautions, being careful not to collide with the object.

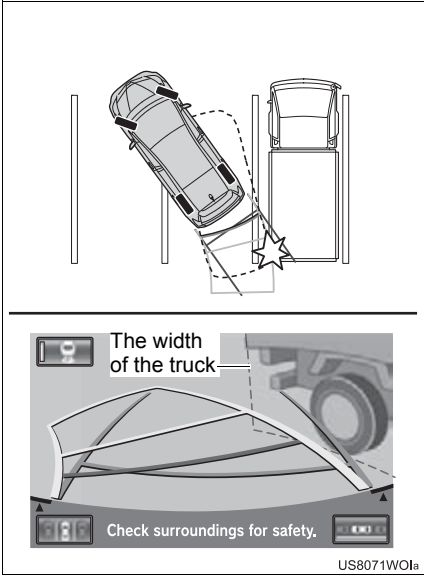
ESTIMATED PATH GUIDANCE MODE

The estimated path guide lines are displayed according to flat surfaces (such as the road). It is not possible to determine the position of three-dimensional objects (such as vehicles) using the estimated path guide lines.

In the case shown above, the truck appears to be outside of the estimated path guide lines and the vehicle does not look as if it will hit the truck. However, the width of the truck extends out from the truck in a line, and this line may actually be on the estimated path guide lines.

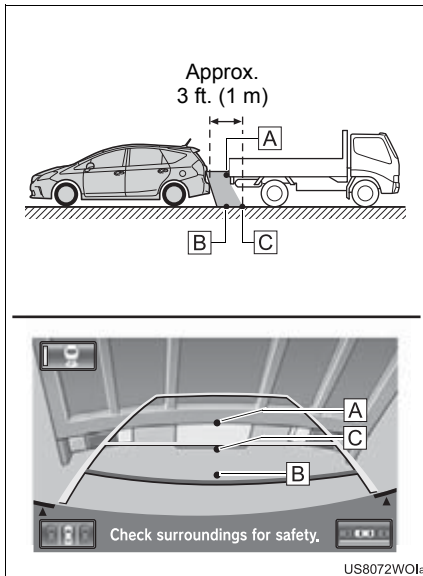
In reality if you back up as guided by the estimated path guide lines, the vehicle may hit the truck.

Similarly, when the estimated path guide lines pass near any object(s) or obstacle(s), be sure to check the area behind and around the vehicle visually.



DISTANCE GUIDE LINE

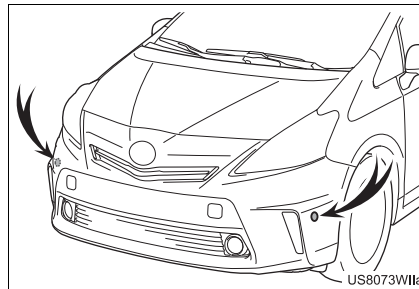
The distance that appears on the screen between three-dimensional objects (such as vehicles) and flat surfaces (such as the road) and the actual distance differ as follows.



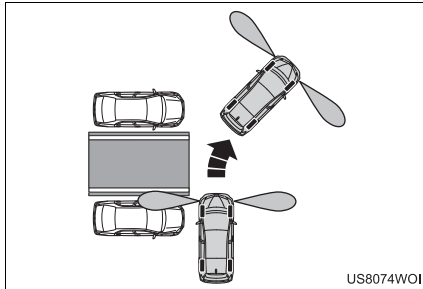
- The distance that appears on the screen between three-dimensional objects (such as vehicles) and flat surfaces (such as the road) differs from the actual distance as follows.
 - In reality, $A = B < C$ (A and B are equally far away; C is farther than A and B). However, on the screen, the situation appears to be $B < C < A$.
 - On the screen, it appears that a truck is parked approximately 3 ft. (1 m) away. However, in reality if you back up to point B , you will hit the truck.

SENSOR

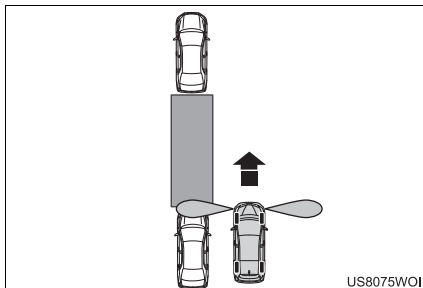
Parking spaces are detected by the sensors on both ends of the front bumper, thus making parking position identification easier.



**SENSOR DETECTION RANGE
WHEN IN PERPENDICULAR
PARKING ASSIST MODE**



**SENSOR DETECTION RANGE
WHEN IN PARALLEL PARKING
ASSIST MODE**



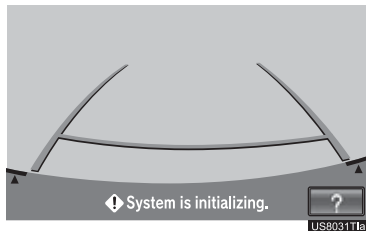
CAUTION

- 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.
 - The sensor is covered in any way.
 - 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 bumper or sensor receives a strong impact.
- Do not attach any accessories within the detection range of the sensors.

INITIALIZING THE SYSTEM

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.).



HOW TO CORRECT


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.

NOTICE

- If the above screen remains, have the vehicle inspected at your Toyota dealer.

INFORMATION

- The help screen appears when  is touched. Make a correction using the following method in accordance with the display.



When the screen returns to the original display, correction is complete.

If the above screen remains, have the vehicle inspected at your Toyota dealer.

2. ADVANCED PARKING GUIDANCE SYSTEM



INDEX

1

2

3

4

5

6

7

8

9

ALPHABETICAL INDEX

A

Adding destinations.....	85	Audio.....	190
Address book.....	101	Audio language code.....	227
Address book entries.....	101	Audio settings.....	264
Advanced parking guidance system.....	322	HD Radio™ system settings.....	264
Advanced parking guidance		iPod settings.....	265
system camera.....	369	Audio/video remote controls	
Area displayed on screen.....	368	(Steering switches).....	252
Differences between the display		Audio/video system.....	190
and the actual road.....	370	Audio/video system operating hints.....	254
Driving precautions.....	366	Caring for your DVD player	
Easy set function.....	331	and disc.....	256
Example of how to use the system		CD-R and CD-RW discs.....	260
when parallel parking.....	365	iPod.....	255
Example of how to use the system		MP3/WMA files.....	258
when parking (Perpendicular		Radio reception.....	254
parking).....	360	Terms.....	260
If a message appears		USB memory.....	256
on the screen.....	310	Automatic Sound Levelizer (ASL).....	195
Initializing the system.....	375	AUX port.....	198
Introduction.....	322		
Maneuvering when parking.....	324		
Manual guide line display mode.....	360		
Operating procedure.....	333, 345		
Parallel parking assist mode.....	344		
Parking assist mode			
(Perpendicular parking).....	330		
Pre-support function.....	330, 344		
Pre-support switch.....	323		
Sensor.....	373		
Tips for setting the			
target parking position.....	340, 352		
Usage precautions.....	366		
What to do when this sort of			
message is displayed.....	355		
When a red frame is displayed			
in the assist mode.....	359		
When a three-dimensional object			
is nearby.....	372		
AM.....	199		
Apps.....	304		

B

Basic function.....	26
Bluetooth®.....	130
Bluetooth® audio.....	242
Connecting a Bluetooth® audio	
player.....	245
Playing Bluetooth® audio.....	247
Bluetooth® phone.....	137
Bluetooth® phone message function.....	152
Checking messages.....	152
New message notification.....	154
Replying (Quick reply).....	153
Bluetooth® settings.....	177
Detailed Bluetooth® settings.....	184
Registered devices.....	177
Selecting a Bluetooth® phone.....	181
Selecting portable player.....	183
Brightness.....	31, 224



C

- Call on the Bluetooth® phone 141
 - By call history 143
 - By dial 141
 - By phonebook 141
 - By POI call 147
 - By speed dial 143
 - By voice recognition 145
- Calling using an SMS/MMS message 147
- CD 213
- CLOSE button 190
- Color 47, 224
- Command list 277
- Contrast 31, 224
- Current position calibration 117
- Current position display 33

D

- Deleting destinations 86
- Deleting personal data 51
- Deleting previous destinations 110
- Deleting set destinations 72
- DEST button 10
- “Destination” screen 20
- Destination search 56
 - By “Address” 58
 - By “Address Book” 68
 - By “Coordinates” 72
 - By “Emergency” 68
 - By home 57
 - By “Intersection & Freeway” 69
 - By “Map” 71
 - By “Point of Interest” 61
 - By preset destinations 57
 - By “Previous Destinations” 67
 - Selecting the search area 56
- Detailed navigation settings 112
- Detour setting 87

- Dial 141, 145
- Distance and time to destination 84
- DSP control 195
- DVD 213
- DVD player 213
 - DVD options 222
 - DVD player and DVD video disc information 231
 - Ejecting a disc 213
 - If the player malfunctions 230
 - Inserting a disc 213
 - Operating a DVD disc 219
 - Playing a disc 214
 - Playing a DVD disc 220
 - Playing an audio disc 214
 - Playing an MP3/WMA disc 216

E

- Emergency 68
- Entune 304
- Expanded voice commands 276

F

- FM 199
- Fuel consumption 282
- Function index 18

G

- General settings 43
- GPS (Global Positioning System) 10, 126

H

- HD Radio™ 202
- Heading-up screen 41
- Home 12, 17, 57, 97

ALPHABETICAL INDEX

I

INFO/APPS (INFO) button.....	10
Information.....	282
“Information” screen.....	24
Inputting letters and numbers.....	28
Internet radio broadcast.....	212
iPod.....	238
Connecting iPod.....	238
Playing iPod.....	238

K

Keyboard layout.....	47
----------------------	----

L

Language.....	46
Limitations of the navigation system.....	126
List screen operation.....	28

M

MAP.....	71
Map database information and updates.....	384
Map database version and coverage area.....	283
Map icons.....	42
Map scale.....	41
MAP/VOICE button.....	10
MEDIA button.....	190
MP3.....	216

N

Natural speech information.....	274
Navigation system.....	56
North-up screen.....	41

O

Operation flow: Guiding the route.....	16
Orientation of the map.....	41
Overview button and guidance screen.....	10

P

Pausing guidance.....	91
Peripheral monitoring system.....	318
Phone.....	130
Phone (Hands-free system for cellular phone).....	132
About the phonebook in this system....	134
Using the phone switch.....	133
Using the steering switches.....	134
When selling or disposing of the vehicle.....	135
PHONE button.....	130
Phone settings.....	155
Message settings.....	170
Phone display settings.....	174
Phone sound settings.....	155
Phonebook.....	157
Phonebook.....	141, 157
POI call.....	147
POI icons.....	92
Point of Interest.....	61
Preset destinations.....	14, 57
Previous destinations.....	67
PWR VOL knob.....	190

Q

Quick guide.....	10
Quick reference.....	20, 130, 190



R

Radio 199
 Listening to the radio 199
 Presetting a station 199
 Radio broadcast data system 200
 Selecting a station 200
 Traffic announcement 201
Radio broadcast data system 200
RADIO button 190
Rear view monitor system 318
 Area displayed on screen 320
 Rear view monitor system camera 320
Receive on the Bluetooth® phone 148
Register a Bluetooth® phone 137
 Connecting a Bluetooth® phone 138
 Reconnecting the Bluetooth®
 phone 140
Registering home 12
Registering preset destinations 14
Reordering destinations 85
Resuming guidance 91
Route guidance 74
Route guidance screen 78
Route overview 88
Route preference 89
Route trace 95

S

Satellite radio (SAT) 194
Screen adjustment 31
Screen Off 31
Screen scroll operation 33
Screen settings adjustment 31
Screens for navigation settings 96
SEEK/TRACK button 190
Setting home as the destination 17
Setting up the “Address Book” 101
Setting up the “Areas to Avoid” 106
Setting up the “Home” 97
Setting up the “Preset Destinations” 99
SETUP button 10, 130, 190
“Setup” screen 22
Show on map 92
SMS/MMS message 147, 152
Speed dial 143
Standard map icons 42
Starting route guidance 74
Steering switches 134, 252, 268
Surround 195
Switching the screens 38



ALPHABETICAL INDEX

T

Talk on the Bluetooth® phone	149
Incoming call waiting	151
Time zone	45
Tire change calibration.....	117
Tone.....	224
Tone and balance	195
Touch screen operation	27
Traffic incidents.....	298
TUNE SCROLL knob.....	190
Typical voice guidance prompts.....	81

U

USB memory.....	233
Connecting a USB memory.....	233
Playing a USB memory	234
USB port	198

V

Vehicle settings.....	120
Maintenance.....	120
Vehicle customization.....	125
Voice command system.....	193, 268
Steering switches for the voice command system	268
Voice recognition	145
Voice settings.....	52
Voice volume	53

W

WMA	216, 258, 260
-----------	---------------

X

XM Fuel Prices.....	292
Show XM Fuel Prices information	292
View detailed fuel price information.....	292
XM Fuel Prices settings.....	293
XM NavTraffic®	298
Show traffic event.....	298
Show XM Navtraffic® information	299
XM NavWeather™	295
Show XM NavWeather™ information	295
Weather information	296
Weather warnings.....	297
XM NavWeather™ indicator	297
XM Satellite Radio broadcast.....	206
Channel category	208
Displaying the radio ID	207
Displaying the title and name	209
How to subscribe to an XM Satellite Radio	206
If the satellite radio tuner malfunctions.....	210
Listening to satellite radio	207
Presetting a channel.....	208
Selecting a channel	208
XM Sports	286
Receive sports information	286
XM Sports settings	287
XM Stocks.....	289
Receive stock data	289
XM Stocks settings.....	290

Z

Zoom in button	10
Zoom out button	10



Map database information and updates

This system uses the maps of DENSO.

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