Introduction

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

The Navigation System is one of the most technologically advanced vehicle accessories ever developed. The system receives satellite signals from the Global Positioning System (GPS) operated by the U.S. Department of Defense. Using these signals and other vehicle sensors, the system indicates your present position and assists in locating a desired destination.

The navigation system is designed to select efficient routes from your present starting location to your destination. The system is also designed to direct you to a destination that is unfamiliar to you in an efficient manner. 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 about 75 Point of Interest categories to allow you to easily select destinations such as restaurants and banks. If a destination is not in the database, you can enter the street address or a major intersection close to it and the system will guide you there.

The system will provide both a visual map and audio instructions. The audio instructions will announce the distance remaining and the direction to turn in approaching an intersection. These voice instructions will help you keep your eyes on the road and are timed to provide enough time to allow you to maneuver, change lanes or slow down.

Please be aware that all current vehicle navigation systems have certain limitations that may affect their ability to perform properly. The accuracy of the vehicle's position depends on the satellite condition, road configuration, vehicle condition or other circumstances. For more information on the limitations of the system, refer to pages 178 through 179.

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.

INFORMATION

This provides additional information.

Safety Instruction

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

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

Do not use any feature of this system to the extent it becomes a distraction and prevents safe driving. The first priority while driving should always be the safe operation of the vehicle. While driving, be sure to observe all traffic regulations.

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

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

⚠ CAUTION

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

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

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

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

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

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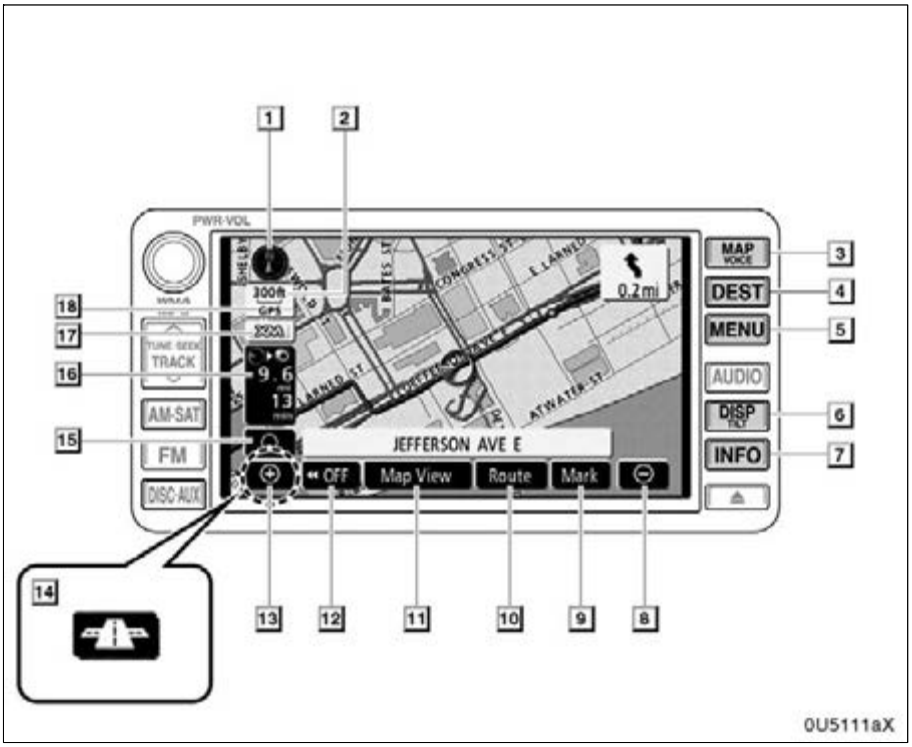
Quick guide —
— Overview buttons and guidance screen



No.	Name	Function	Page
1	**North−up or heading−up symbol**	This symbol indicates a map view with north−up or heading−up. Touching this symbol changes the map orientation.	39
2	**Scale indicator**	This figure indicates the map scale.	37
3	**“MAP/VOICE” button**	Push this button to repeat a voice guidance, cancel one touch scroll, start guidance, and display the current position.	30, 74
4	**“DEST” button**	Push this button to display the “Destination” screen.	12, 14, 16, 17, 42, 43
5	**“MENU” button**	Push this button to display the “Menu” screen.	90, 92, 93, 94, 96, 110, 190
6	**“DISP/TILT” button**	Push this button to display the “Display” screen.	22, 137

No.	Name	Function	Page
7	**“INFO” button**	Push this button to display the “Information” screen.	128, 132, 138, 141
8	**Zoom out button**	Touch this button to reduce the map scale.	37
9	**“Mark”**	Touch this button to register the current position or the cursor position as a memory point.	31
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13	**Zoom in button**	Touch this button to magnify the map scale.	37
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15	**Screen configuration button**	Touch this button to change the screen mode.	34
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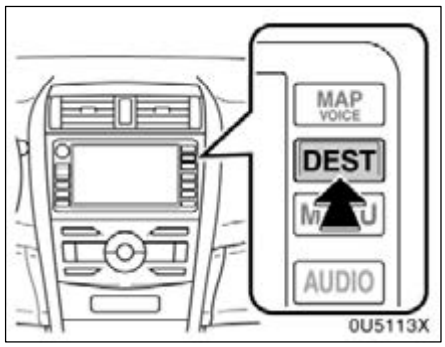
— Registering home



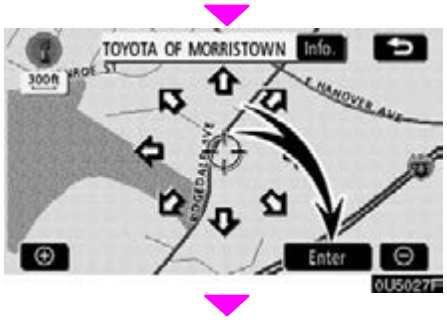
1 **Push the “DEST” button.**

2 **Touch .**

If home has not been registered, you can register it by touching .

3 **There are 11 different methods to search your home.**

See “Destination search” on page 43.



4 **Touch “Enter”.**

The “Memory Point” screen is displayed.

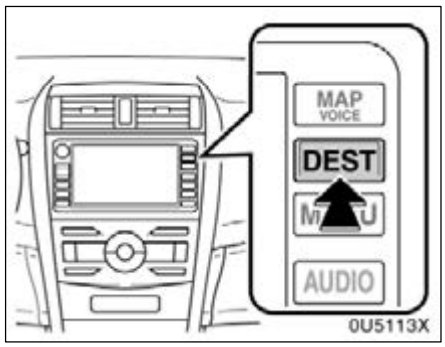
5 **Touch “OK”.**

Registration of home is complete.

You can also register home by pushing the **“MENU”** button. (See “ — Registering home” on page 104.)

You can change the icon, quick access, name, location and phone number. (See “ — Editing memory points” on page 98.)

— Registering preset memory points (Quick access)



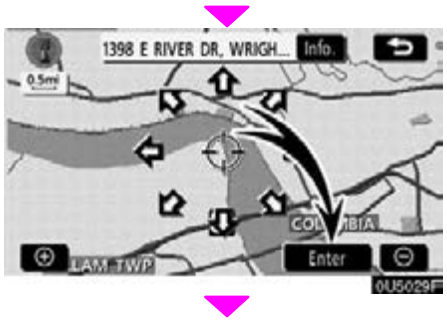
1 **Push the “DEST” button.**

2 **Touch one of the quick access buttons.**

You can set a memory point to one of the quick access buttons which has not been set.

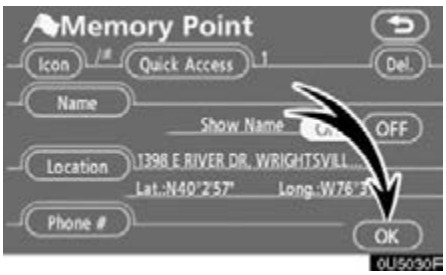
3 **There are 12 different methods to search preset memory points.**

See “Destination search” on page 43.



4 **Touch “Enter”.**

The “Memory Point” screen is displayed.



5 **Touch “OK”.**

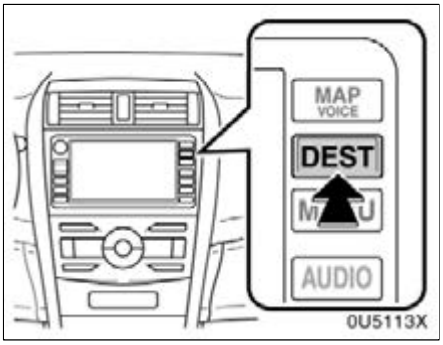
Registration of preset memory points is complete.

You can also register preset memory points by pushing the **“MENU”** button. (See “ — Registering memory points” on page 97.)

You can change the icon, quick access, name, location and phone number. (See “ — Editing memory points” on page 98.)

The registered points can be used on the “Destination” screen. (See “ — Destination search by Quick access” on page 46.)

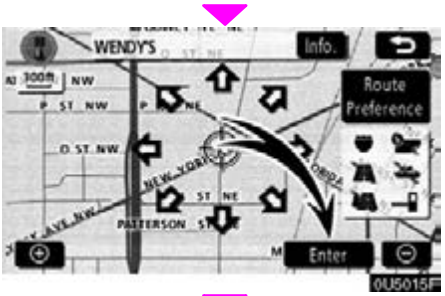
— Operation flow: guiding the route



1 **Push the “DEST” button.**

2 **There are 12 different methods to search destinations.**

See “Destination search” on page 43.



3 **Touch “Enter”.**

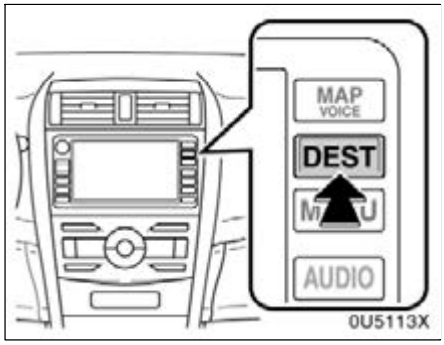
The navigation system performs a search for the route.

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

Routes other than the one recommended can also be selected. (See “Starting route guidance” on page 65.)

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

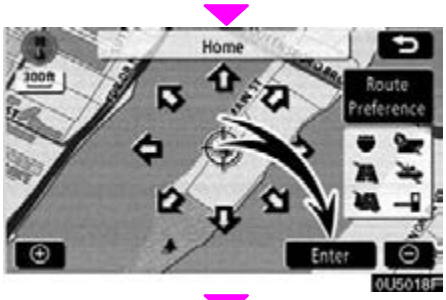
— Setting home as the destination



1 **Push the “DEST” button.**

2 **Touch .**

The can be used if your home has been registered. (To register “Home”, see “ — Registering home” on page 104.)



3 **Touch “Enter”.**

The navigation system performs a search for the route.

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

Routes other than the one recommended can also be selected. (See “Starting route guidance” on page 65.)

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

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*: Point(s) of Interest

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SECTION 1

BASIC FUNCTIONS

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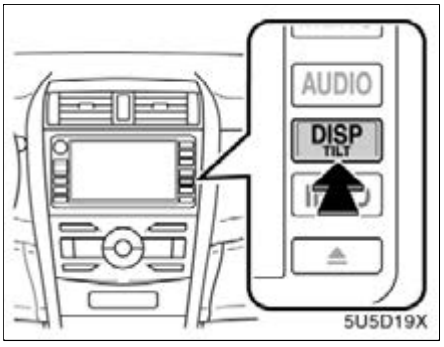
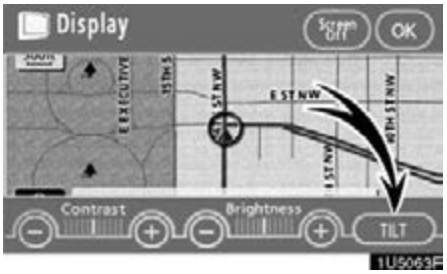
Display operation



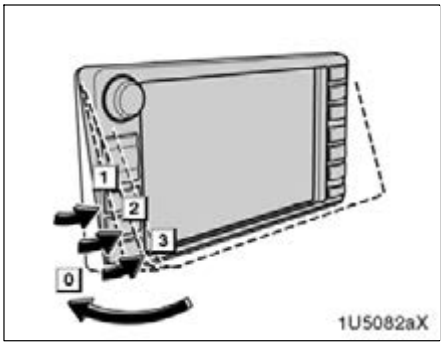
1. Push the “DISP/TILT” button.



2. Touch “TILT”.

INFORMATION

To adjust the screen settings such as brightness, see “Screen adjustment” on page 137.



Adjustment of the angle of the display can be done by touching **“TILT”**. Each touch **“TILT”** will tilt the display to positions 1, 2, 3 and then back to 0 in the reverse order.

Vehicles with smart key system—

If the “ENGINE START STOP” switch is set at OFF, the display will automatically move back to position 0. The display will automatically resume the previous position when the engine switch is in ACCESSORY or IGNITION ON mode.

Vehicles without smart key system—

If the engine switch is set at OFF, the display will automatically move back to position 0. The display will automatically resume the previous position when the engine switch is in “ACC” or “ON” position.

⚠ CAUTION

Injury may result from placing a hand or any fingers on the display while it is moving.

NOTICE

Do not place any foreign objects on the display while it is moving. It could damage your navigation system.

INFORMATION

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

Initial screen

Vehicles with smart key system —

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

Vehicles without smart key system —

When the engine switch is in “ACC” or “ON” position, the initial screen will be displayed and the system will begin operating.

⚠ CAUTION

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

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

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

While the “CAUTION” screen is displayed, the **“DEST”** or **“MENU”** button cannot be operated. And if the **“Calendar”** or **“Maintenance”** buttons on the “Information” screen are touched, the screen will change back to “CAUTION” screen and then change to the map screen in about 5 seconds later or if the **“MAP/VOICE”** button is pushed.

- **Maintenance information**

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

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

To disable this screen, touch “Do Not Display This Message Again.”. This screen goes off if the screen is not operated for several seconds.

To prevent this information screen from being displayed again, touch **“Do Not Display This Message Again.”**.

To register “Maintenance information”, see “Maintenance information” on page 128.

- **Memo information**

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

The memo of the current date can be viewed by touching "Memo". (See " — Editing a memo" on page 135.)

To disable this screen, touch "Do Not Display This Message Again.". This screen goes off if the screen is not operated for several seconds.

To prevent this information screen from being displayed again, touch **"Do Not Display This Message Again."**.

To register a memo information, see "Calendar with memo" on page 132.

Touch screen operation

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

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

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

INFORMATION

- ***If the system does not respond to a touch on a touch screen button, move the finger away from the screen and then touch it again.***
- ***Dimmed touch screen buttons cannot be operated.***
- ***Wipe off fingerprints using a glass cleaning cloth. Do not use chemical cleaners to clean the touch screen.***
- ***The displayed image may become darker and moving images may be slightly distorted when the display is cold.***
- ***Under extremely cold conditions, the map may not be displayed and the data input by a user may be deleted. Also, the touch screen buttons may be harder than usual to depress.***
- ***When you look at the screen through polarized material such as polarized sunglasses, the screen may be dark and hard to see. If so, change the angle of the screen, look at the screen from different angles, adjust the screen settings on the "Display" screen, or take off your sunglasses.***

Inputting letters and numbers/List screen operation

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

INFORMATION

Keyboard layout can be changed. (See page 112.)

- **To input letters**

To display the alphabet keys, touch **"A–Z"** or **"À–Ý"**.

Enter letters by touching the alphabet keys directly.

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

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

: To enter in lower case.

: To enter in upper case.

- **To input numbers and symbols**

To display the number keys and symbol keys, touch **"0−9"**.

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

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

1/2 / 2/2 : Touching this button displays other symbols.

- **To display the list**

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

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

INFORMATION

The number of matching items is shown to the right side of the screen. If the number of matching items is more than 9999, the system displays "*" on the screen.***

- **List screen operation**

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

To shift to the next or previous page.

To scroll up or down one item at a time.

This expresses a displayed screen position.

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

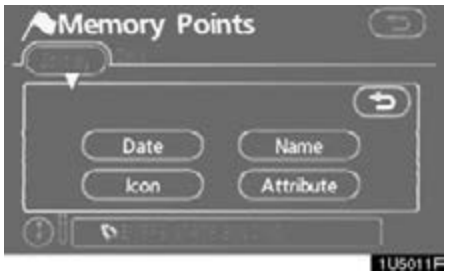
Touch to scroll to the beginning of the name.

- **Sorting**

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

TYPE A

1. Touch "Sort by".



2. Select the desired sorting criteria.

Sorting criteria are as follows:

"Distance": To sort in the order of distance from your current location.

"Date": To sort in the order of the date.

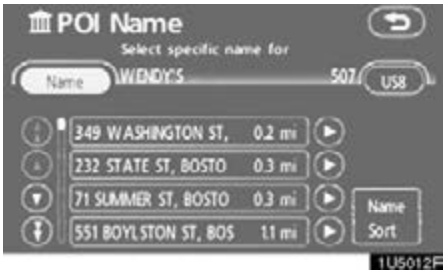
"Category": To sort in the order of the category.

"Icon": To sort in the order of the icons.

"Name": To sort in order by name.

"Attribute": To sort in order by attribute.

TYPE B



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

"Name Sort": To sort in alphabetical order by name.

Function help

Explanations for the functions of the "Destination", "Setup", "Menu" and "XM NavTraffic" screens can be viewed.

Touch ?.

: To view the previous page.

: To view the next page.

: To return to the previous screen.

Map screen operation — — Current position display

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

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

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

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

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

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

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

INFORMATION

- ***After battery disconnection, or on a new vehicle, the current position may not be correct. As soon as the system receives signals from the GPS, the correct current position is displayed.***
- ***To correct the current position manually, see page 118.***

— Screen scroll operation (one−touch scroll)

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

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

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

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

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

INFORMATION

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

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

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

Touch “Enter ⊙”.

The screen changes and displays the map location of the selected destination and the route preference. (See “Starting route guidance” on page 65.)

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

“Add to ⊙”: To add a destination.

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

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

Memory point registration enables easy access to a specific point.

Touch “Mark”.

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

The registered point is shown by on the map.

To change the icon or name, etc., see “ — Editing memory points” on page 98.

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

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

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

POI INFORMATION

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

Touch "Info.".

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

If **"Enter ⊙"** is touched, the position of the cursor is set as a destination.

If there is already a set destination, **"Add to ⊙"** and **"Replace ⊙"** are displayed.

"Add to ⊙": To add a destination.

"Replace ⊙": To delete the existing destinations and set a new one.

To register this POI as a memory point, touch **"Mark"**. (See page 97.)

INFORMATION
The desired Point of Interest can be displayed on the map screen. (See " — Display POI icons" on page 82.)

MEMORY POINT INFORMATION

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

Touch "Info.".

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

If **"Enter ⊙"** is touched, the position of the cursor is set as a destination.

If there is already a set destination, **"Add to ⊙"** and **"Replace ⊙"** are displayed.

"Add to ⊙": To add a destination.

"Replace ⊙": To delete the existing destinations and set a new one.

To edit a memory point, touch **"Edit"**. (See " — Editing memory points" on page 98.)

To delete a memory point, touch **"Delete"**.

DESTINATION INFORMATION

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

Touch "Info.".

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

To delete a destination, touch **"Delete"**.

— Switching the screens

Any one of the screen configurations can be selected .

1. Touch this button to display the following screen.

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

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

: To display the single map screen. (See page 35.)

: To display the dual map screen. (See page 36.)

: To display the compass mode screen. (See page 36.)

: To display the turn list screen. (See page 72.)

: To display the arrow screen. (See page 72.)

: To display the freeway information screen. (See page 70.)

: To display the intersection guidance screen or the guidance screen on the freeway. (See page 71.)

- **Screen configurations**

SINGLE MAP

This is a regular map screen.

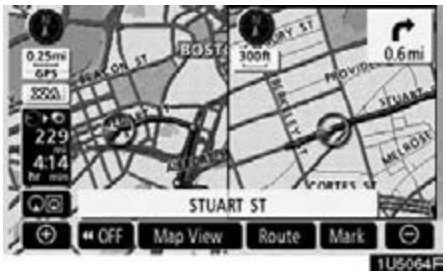
While on a different screen, touching will display the single map screen.

The screen shows the single map.

DUAL MAP

A map can be displayed split in two.

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



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

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

This screen can perform the following procedures:

1. Changing the map scale
2. Displaying the POI icon
3. Show XM® NavTraffic Info. (See page 120.)
4. Changing the orientation of the map

Touch "OK" when you complete editing.

The screen returns to the dual map screen.

COMPASS MODE

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

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

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

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

INFORMATION

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

— Map scale

Touch [+] or [−] to change the scale of the map display. The scale bar and indicator at the bottom of the screen indicates the map scale menu. The scale range is 150 feet (50 m) to 250 miles (400 km).

Touch [+] or [−] until the scale bar changes normally. By continuing to touch the button, the scale bar changes smoothly.

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

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

INFORMATION

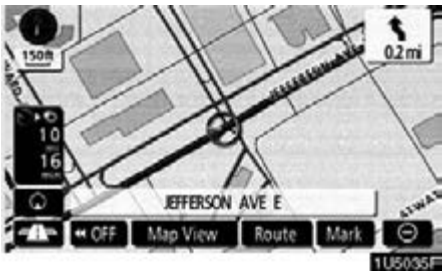
When the map scale is at the maximum range of 250 miles (400 km), [−] is not shown. When the map scale is at the minimum range of 150 feet (50 m), [+] is not shown. In areas where the foot print map is available the map scale changes from [+] to [foot] when at the minimum range.

— Foot print map

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

- **To switch to the foot print map**

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



To display the foot print map, touch [foot].

To delete the foot print map display, touch [−].

INFORMATION

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

- **To display building information**

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

1. Touch “Info.” while the foot print map is displayed.

If the map is displayed by a split screen, the map will change into a single map display.

2. Using the eight−direction arrow, move the cursor to the position of the building to display building information.

3. Touch “Building Info.”.

Details of POIs in some buildings may be displayed.

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

— Orientation of the map

The orientation of the map can be changed from North–up to Heading–up by touching the orientation symbol at the top left of the screen.

Touch or .

▶ North–up screen

▶ Heading–up screen

North–up symbol

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

Heading–up symbol

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

SECTION 2

DESTINATION SEARCH

Destination search

- Quick reference (“Destination” screen) 42
- **Destination search** 43
  - Selecting the region to search 44
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  - Destination search by “Address” 47
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  - Destination search by “Emergency” 59
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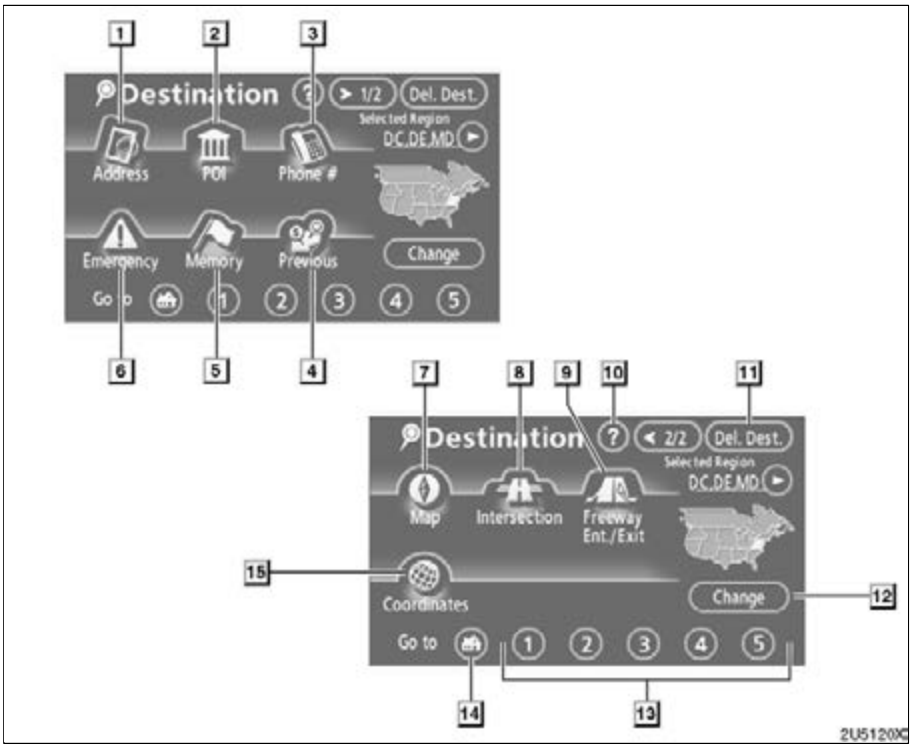
*: Point of Interest

Quick reference (“Destination” screen)

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



1 “Address”

A house number and the street address can be input by using the input keys. 47

2 “POI”

Select one of the many POIs (Points of Interest) that have already been stored in the system’s database. 51

3 “Phone #”

A destination can be entered by the telephone number. 58

4 “Previous”

A destination can be selected from any of the last 100 previously set destinations and from the previous starting point. 60

5 “Memory”

The location can be selected from the registered “Memory points”. (To register memory points, see “ — Registering memory points” on page 97.) 59

6 “Emergency”

One of the four categories of emergency service points that are already stored in the system’s database can be selected. 59

7 “Map”

A destination can be selected simply by touching the location on the displayed map. 61

8 **“Intersection”**

The names of two intersecting streets can be entered. This is helpful if only the general vicinity, not the specific address, is known. 61

9 **“Freeway Ent./Exit”**

The name of a freeway (interstate) entrance or exit can be entered. 62

10 **“?”**

Function help for the “Destination” screen can be viewed on this screen. 29

11 **“Del. Dest.”**

Set destinations can be deleted. 64

12 **“Change”**

To change the selected region to search, touch this button. 44

13 **Quick access touch screen buttons**

One of 5 preset memory points can be selected by touching the screen directly. If a quick access point has not been registered, a message will be displayed and will automatically switch to the setting screen. To use this function, it is necessary to set the “Quick Access” for each memory point. (To register a “Quick Access”, see “ — Editing memory points” on page 98.) 46

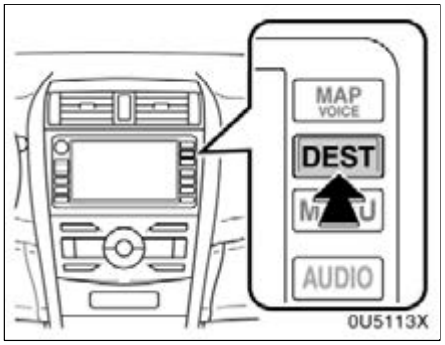
14 **Home touch screen button**

A personal home address can be selected without entering the address each time. If home has not been registered, a message will be displayed and will automatically switch to the setting screen. To use this function, it is necessary to set “Home” for the memory point. (To register “Home”, see “ — Registering home” on page 104.) 46

15 **“Coordinates”**

A destination can be set by using latitude and longitude as coordinates. 63

Destination search —



Push the “DEST” button.

You can use one of 12 different methods to search your destination. (See pages 46 through 63.)

INFORMATION

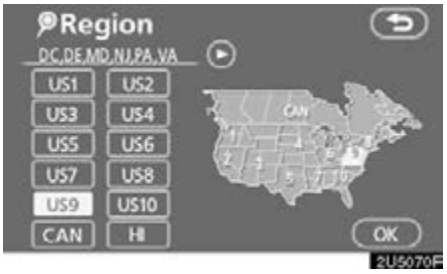
When searching the destination, the response to the touch screen button may be slow.

— Selecting the region to search

SELECTING THE REGION TO SEARCH ON THE DESTINATION SCREEN

1. Push the “DEST” button.

2. Touch “Change” on the “Destination” screen to display a map of the United States and Canada divided into 12 regions. (For map database information and updates, see “Map database information and updates” on page 180.)



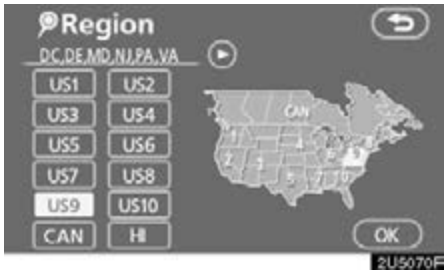
3. Touch one of “US1” through “CAN” to select a region to search.

4. Touch “OK” and the “Destination” screen returns.

SELECTING THE REGION TO SEARCH ON THE INPUT SCREEN

Change the selected region in order to set a destination from a different region by using “Address”, “POI”, “Freeway Ent./Exit” or “Intersection”.

1. Touch the region to search button like “US9” on the input screen to display a map of the United States and Canada divided into 12 regions. (For map database information and updates, see “Map database information and updates” on page 180.)



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

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

U.S.A.	
Button	States included in the search region
“US1”	Idaho Oregon Washington
“US2”	California Nevada
“US3”	Arizona Colorado Montana New Mexico Utah Wyoming
“US4”	Iowa Kansas Minnesota Missouri North Dakota Nebraska South Dakota
“US5”	Oklahoma Texas
“US6”	Illinois Indiana Kentucky Michigan Ohio Wisconsin
“US7”	Arkansas Alabama Louisiana Mississippi Tennessee
“US8”	Connecticut Massachusetts Maine New Hampshire New Jersey New York Rhode Island Vermont
“US9”	Washington, D.C. Delaware Maryland New Jersey Pennsylvania Virginia West Virginia
“US10”	Florida Georgia North Carolina South Carolina
“HI”	Hawaii

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

— Destination search by Home

1. Push the “DEST” button.

2. Touch the home touch screen button on the “Destination” screen.

The screen changes and displays the map location for home and the route preference. (See “Starting route guidance” on page 65.)

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

To use this function, it is necessary to set “Home” for the memory point. (To register “Home”, see page 104.)

INFORMATION

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

— Destination search by Quick access

1. Push the “DEST” button.

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

The screen changes and displays the map location of the quick access point and the route preference. (See “Starting route guidance” on page 65.)

If a quick access point has not been registered, a message will be displayed and will automatically switch to the setting screen.

To use this function, it is necessary to set “Quick Access” for each memory point. (To register “Quick Access”, see page 100.)

INFORMATION

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

— Destination search by “Address”

There are 2 ways to input a destination by address.

1. Push the “DEST” button.

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

(a) Inputting a house number and a street name

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

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

It is possible to input a street name first. Touch **“Street”** to display the screen for inputting a street name.

2. Input the street name and touch “List”.

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

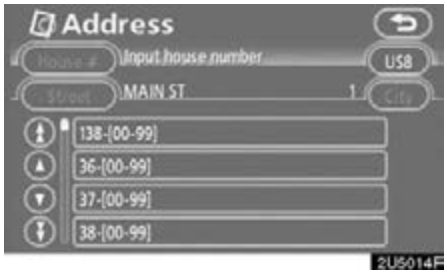
The screen changes and displays the map location of the selected destination and the route preference. (See “Starting route guidance” on page 65.)

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

4. Select or enter the desired city.

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

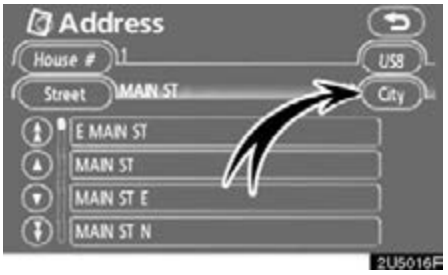
If inputting a street name first, the screen changes. The house number can then be input.



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

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

(b) Selecting a city to search



Touch “City”.

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

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

INFORMATION
• ***To change the selected region, touch “Select Region”.***
• ***To cancel the city setting, touch “Any City”.***

INPUTTING THE CITY NAME

1. Touch “Input City Name”.

2. Input a city name.

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

“Map”: To display the selected destination and the route preference. (See “Starting route guidance” on page 65.)

The current screen changes to the screen for inputting a house number or a street name. (See “(a) Inputting a house number and a street name” on page 47.)

SELECTING FROM THE NEAREST 5 CITIES

1. Touch “Nearest 5 Cities”.

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

The current screen changes to the screen for inputting a house number or a street name. (See “(a) Inputting a house number and a street name” on page 47.)

SELECTING FROM THE LAST 5 CITIES

Touch the button of the desired city name.

If the navigation has never been used, no cities will be displayed on the screen.

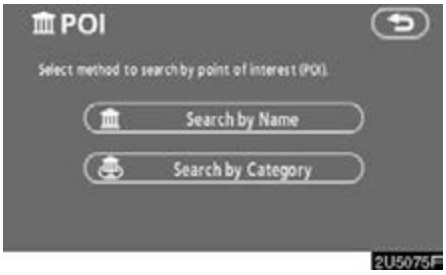
The current screen changes to the screen for inputting a house number or a street name. (See “(a) Inputting a house number and a street name” on page 47.)

— Destination search by “POI”

There are two ways to search by POI (Points of Interest).
(a) Search by name
(b) Search by category

1. Push the “DEST” button.

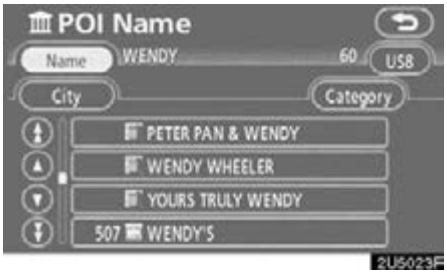
2. Touch “POI” on the “Destination” screen.



3. Touch the button for the desired method.

(a) Search by “Name”

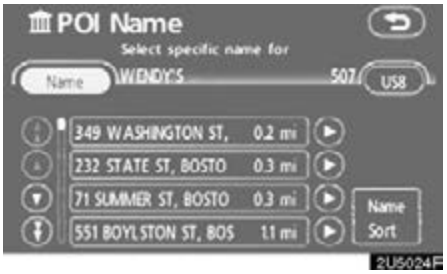
1. Input the name of the Point of Interest.



2. Touch the button of the desired destination.

The screen changes and displays the map location of the selected destination and the route preference. (See “Starting route guidance” on page 65.)

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



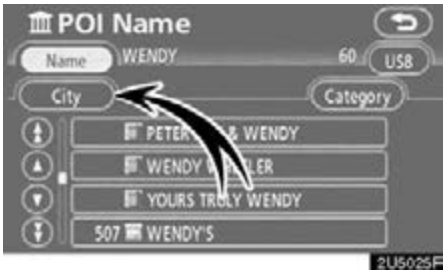
Touch the button of the desired destination.

If the same name exists in more than one city, a search can be performed more easily with **"City"** and **"Category"**. (See "Selecting a city to search" on page 52 and "Selecting from the categories" on page 54.)

INFORMATION

The desired Point of Interest can be displayed on the map screen. (See " — Display POI icons" on page 82.)

- **Selecting a city to search**



Touch "City".

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

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

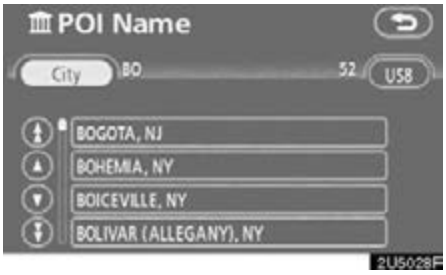
INFORMATION

- ***To change the selected region, touch "Select Region".***
- ***To cancel the city setting, touch "Any City".***

INPUTTING THE CITY NAME

1. Touch “Input City Name”.

2. Input the city name.



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

SELECTING FROM THE NEAREST 5 CITIES

1. Touch “Nearest 5 Cities”.

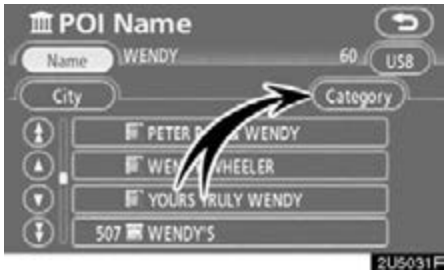
2. Touch the button of the desired city name.

SELECTING FROM THE LAST 5 CITIES

Touch the button of the desired city name.

If the navigation has never been used, no cities will be displayed on the screen.

- **Selecting from the categories**



Touch “Category”.

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

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

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

(b) Search by “Category”

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

Set the search point by the following method:

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

It is possible to display the names of POIs located within approximately 20 miles (32 km) from the selected search point.

INPUTTING THE CITY CENTER

1. Touch “Input City Center”.

2. Input the city center name.

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

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

4. Touch “Enter”.

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

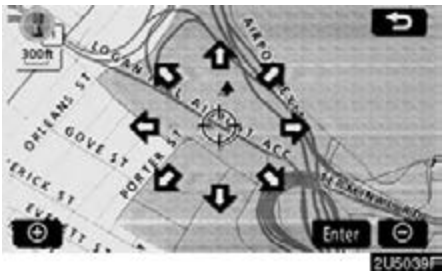
SETTING THE CURRENT POSITION AS THE SEARCH POINT

Touch “Current Position”.

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

SETTING THE SEARCH POINT VIA THE MAP SCREEN

1. Touch “Map”.



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

2. Touch “Enter”.

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

SETTING THE SEARCH POINT FROM DESTINATIONS

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

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

2. Touch "Enter".

The search point is set and the "POI Category" screen will be displayed.

- **To search POIs near the search point**

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

Select the desired POI categories.

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

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

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

Select the desired POI categories from the list and touch "OK".

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

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

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

By touching the button of the desired item, the screen changes and displays the map location of the selected destination and the route preference. (See “Starting route guidance” on page 65.)

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

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

— Destination search by “Phone #”

1. Push the “DEST” button.

2. Touch “Phone #” on the “Destination” screen.

3. Input a telephone number.

4. After inputting a telephone number, touch “OK”.

The screen changes and displays the map location of the selected destination and the route preference. (See “Starting route guidance” on page 65.)

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

INFORMATION

- ***If there is no match for the telephone number inputted, a list of identical numbers with different area codes will be displayed.***
- ***To set a memory point as a destination using the phone number, the number must be registered previously. (See page 103.)***

— Destination search by “Emergency”

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

3. Touch the desired emergency category.

The selected emergency category list is displayed.

4. Touch the button of the desired destination.

The screen changes and displays the map location of the selected destination and the route preference. (See “Starting route guidance” on page 65.)

INFORMATION
The navigation system does not guide in areas where route guidance is unavailable. (See page 179.)

— Destination search by “Memory”

1. Push the “DEST” button.

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

A list of registered memory points is displayed. (To register or edit memory points, see “My places” on page 96.)

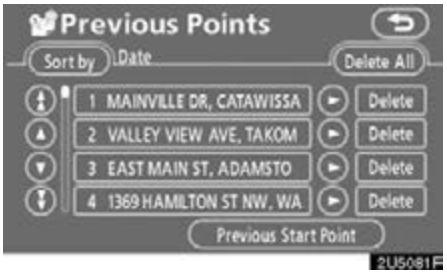
3. Touch the button of your desired memory point.

The screen changes and displays the map location of the selected destination and the route preference. (See “Starting route guidance” on page 65.)

— Destination search by “Previous”

1. Push the “DEST” button.

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



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

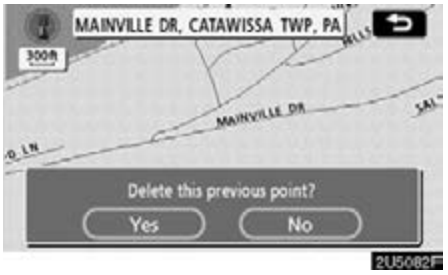
3. Touch the button of the desired destination.

The screen changes and displays the map location of the selected destination and the route preference. (See “Starting route guidance” on page 65.)

- **Deleting previous points**

1. Touch “Delete” for the previous point button you want to delete.

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



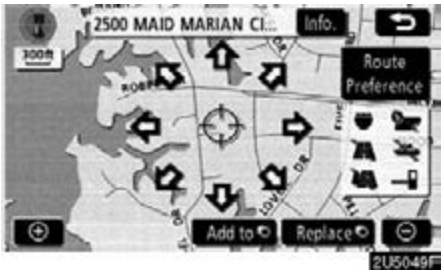
2. To delete the point, touch “Yes”. To cancel the deletion, touch “No”.

INFORMATION
The list of previous destinations can also be deleted by touching “Delete Previous Points” on the “My Places” screen when the vehicle is stopped. (See “ — Deleting previous points” on page 110.)

— Destination search by “Map”

1. Push the “DEST” button.

2. Touch “Map” on the second page of the “Destination” screen.



The screen changes and displays the map location that was previously displayed just before the destination input operation and the route preference. (See “Starting route guidance” on page 65.)

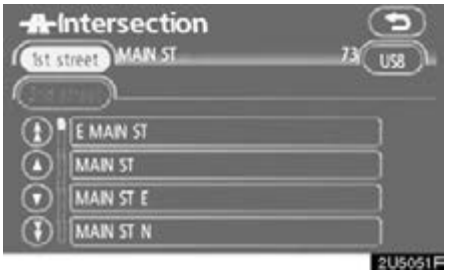
INFORMATION
Guidance starts if “Enter” is touched even while driving. However, the cursor cannot be moved.

— Destination search by “Intersection”

1. Push the “DEST” button.

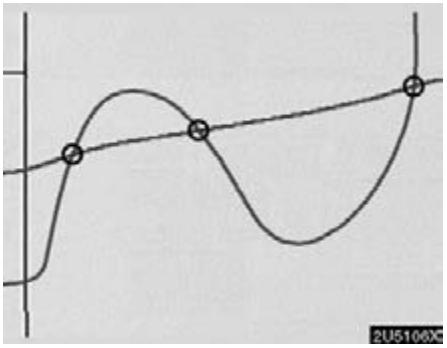
2. Touch “Intersection” on the second page of the “Destination” screen.

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



4. Touch the button of the desired item.

After inputting the two intersecting streets, the screen changes and displays the map location of the selected destination and the route preference. (See “Starting route guidance” on page 65.)



If the same two streets cross at more than one intersection, the screen changes and displays the menu to select the city name where the streets intersect. Select the city, and the map location of the selected destination and the route preference. (See “Starting route guidance” on page 65.)

— Destination search by “Freeway Ent./Exit”

1. Push the “DEST” button.

2. To input a freeway entrance or exit, touch “Freeway Ent./Exit” on the second page of the “Destination” screen.

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

3. Select the desired freeway by touching the button.

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

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

The screen changes and displays the map location of the selected destination and the route preference. (See “Starting route guidance” on page 65.)

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

— Destination search by “Coordinates”

1. Push the “DEST” button.

2. Touch “Coordinates” on the second page of the “Destination” screen.

3. Input the latitude and the longitude.

4. When the input is finished, touch “OK”.

By touching the button of the desired point, the screen changes and displays the map location of the selected destination and the route preference. (See “Starting route guidance” on page 65.)

— Deleting set destinations

A set destination can be deleted.

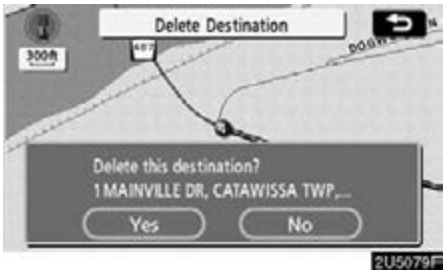
1. Push the “DEST” button.

2. Touch “Del. Dest.” on the “Destination” screen.

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

3. Touch the destination for deletion.

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



A message appears to confirm the request to delete.

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

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

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

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

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

INFORMATION
Set destinations can also be deleted by touching “Route”. (See “ — Deleting destinations” on page 77.)

Starting route guidance

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

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

Releasing the finger from the arrow will stop the scrolling.

2. Touch "Enter".

The system starts route search and displays recommended routes.

If there is already a set destination, **"Add to ⊙"** and **"Replace ⊙"** are displayed.

"Add to ⊙": To add a destination.

"Replace ⊙": To delete the existing destinations and set a new one.

"Route Preference": To change the route preference. (See page 66.)

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

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

3. To start guidance, touch "Guide".

"3 Routes": To select the desired route from three possible routes. (See page 67.)

"Route": To change the route. (See pages 76 and 78.)

INFORMATION

- *Guidance can be suspended or resumed. (See "Suspending and resuming guidance" on page 92.)*
- *If "Guide" is touched until a beep sounds, demo mode will start. Push the "MAP/VOICE" button to finish Demo mode.*
- *The route for returning may not be the same as that for going.*
- *The route guidance to the destination may not be the shortest route nor a route without traffic congestion.*
- *Route guidance may not be available if there is no road data for the specified location.*
- *When setting the destination on a map with a scale larger than 0.5 miles (800 m), the map scale changes to 0.5 miles (800 m) automatically. Set the destination again.*
- *If a destination is entered, the road nearest to the point you selected is set as the destination.*

⚠ CAUTION

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

- **To change the route before starting guidance**

ROUTE PREFERENCE

1. You can change route preference by touching "Route Preference".

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

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

3. After choosing the desired route preference, touch "OK".

INFORMATION

- ***Even if the "Allow Freeway" indicator is dimmed, the route cannot avoid including a freeway in some cases.***
- ***If the calculated route includes a trip by ferry, the route guidance shows a sea route. After you travel by ferry, the current vehicle position may be incorrect. Upon reception of GPS signals, it is automatically corrected.***

3 ROUTES SELECTION

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

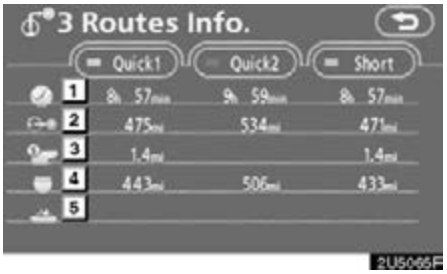
2. Touch "Quick1", "Quick2" or "Short" to select the desired route.

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

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

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

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



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

SECTION 3

ROUTE GUIDANCE

Route guidance

- Route guidance screen 70
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*: Point of Interest

Route guidance screen

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

- **Screen layout**

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

INFORMATION

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

- **During freeway driving**

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

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

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

: To display the selected map of the exit vicinity.

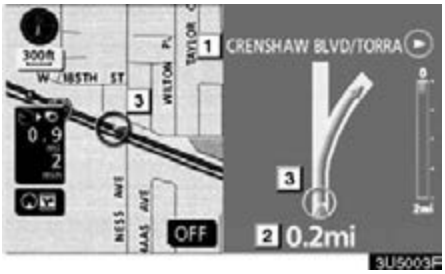
: To scroll for farther junctions or exits.

: To scroll for closer junctions or exits.

: To scroll for the closest three junctions or exits.

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

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



1 **Road/area name**
2 **Distance from the current position to the exit or junction**
3 **Current position**

"OFF": The guidance screen on freeway disappears and the map screen appears.

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

- **When approaching an intersection**

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

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

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

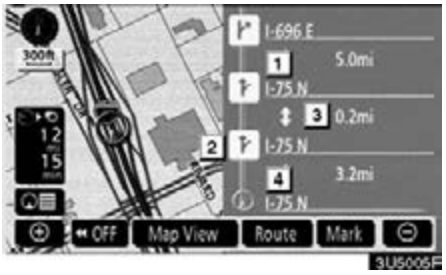
When touching or pushing the **"MAP/VOICE"** button, the intersection guidance screen reappears.

- **Other screens**

TURN LIST SCREEN

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

Touching during guidance displays the turn list.

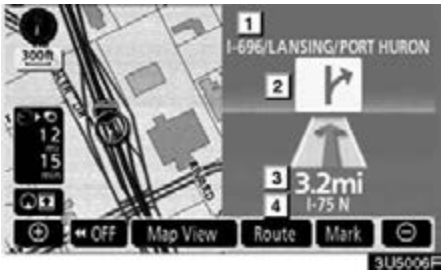


1. **Next street name or destination name**
2. **Turn direction**
3. **Distance between turns**
4. **Current street name**

ARROW SCREEN

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

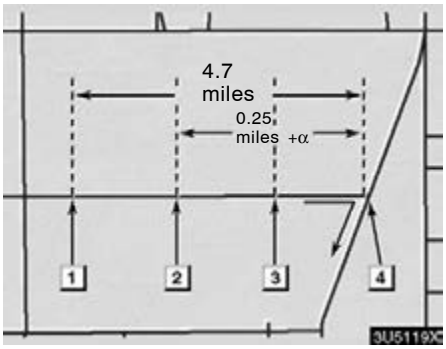
Touching during guidance displays the arrow screen.



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

Typical voice guidance prompts

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



1 ♪ "Proceed about 5 miles."

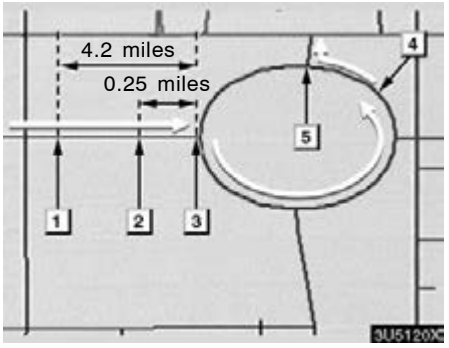
2 ♪ "In a quarter of a mile, right turn."

3 ♪ "Right turn."

4 ♪♪ (Beep sound only)

INFORMATION

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



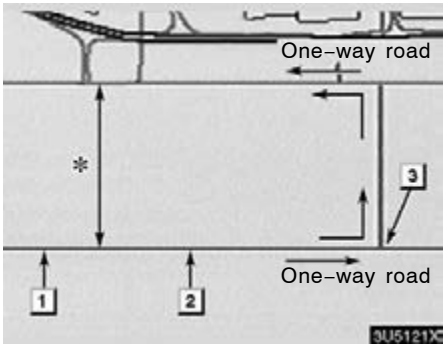
1 ♪ "Proceed about 4 miles to the traffic circle."

2 ♪ "In a quarter of a mile, traffic circle ahead, and then 3rd exit ahead."

3 ♪ "The 3rd exit ahead."

4 ♪ "The exit ahead."

5 ♪♪ (Beep sound only)

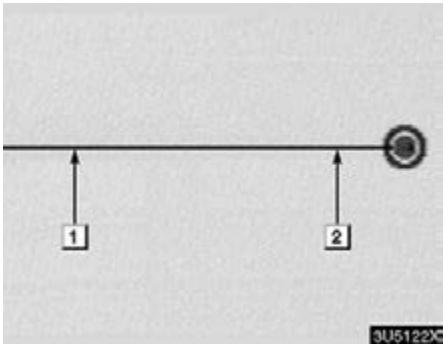


*: The system indicates a U–turn if the distance between two one–way roads (of opposite directions) is less than 50 feet (15 m) in residential areas or 164 feet (50 m) in non–residential areas.

1 ♪ "In half of a mile, make a legal U–turn."

2 ♪ "Make a legal U–turn ahead."

3 ♪♪ (Beep sound only)



The system announces the approach to the final destination.

1 ♪ "Your destination is ahead."

2 ♪ "You have arrived at your destination. The route guidance is now finished."

INFORMATION

- ***If the system cannot determine the current vehicle position correctly (in cases of poor GPS signal reception), the voice guidance may be made early or delayed.***
- ***If you did not hear the voice guidance command, push the "MAP/VOICE" button to hear it again.***
- ***To adjust the voice guidance volume, see "Volume" on page 93.***

Distance and time to destination

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

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

1. Touch this button to display the following screen.

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

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

Estimated travel time is displayed.

Estimated arrival time is displayed.

To switch to estimated arrival time.

To switch to estimated travel time.

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

INFORMATION

When the vehicle is on the guidance route, the distance measured along the route is displayed. Travel time and arrival time is calculated based on the set vehicle speed information. (See page 111.) However, when the vehicle is not on the guidance route, the distance is the linear distance between the current position and the destination.

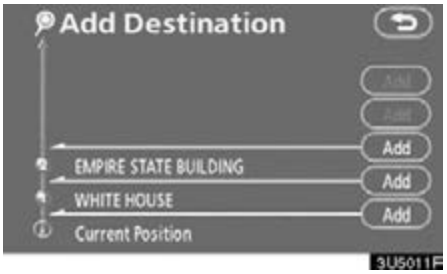
Setting and deleting destination — — Adding destinations

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

1. Touch “Route”.

2. Touch “Add”.

3. Input an additional destination in the same way as the destination search. (See “Destination search” on page 43.)



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

— Reordering destinations

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

1. Touch “Route”.

2. Touch “Reorder”.

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

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

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

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

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

— Deleting destinations

A set destination can be deleted.

1. Touch “Route”.

2. Touch “Delete”.

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

3. Touch the destination for deletion.

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

A message appears to confirm the request to delete.

4. To delete the destination(s), touch "Yes".

If **"Yes"** is touched, the data cannot be recovered.

If **"No"** is touched, the previous screen will return.

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

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

Setting route — — Search condition

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

1. Touch "Route".

2. Touch "Search Condition".

3. Touch "Quick", "Quick1", "Quick2" or "Short" and touch "OK".

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

“Guide”: To start guidance.

“Route”: To change a route. (See pages 76 and 78.)

— Detour setting

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

1. Touch “Route”.

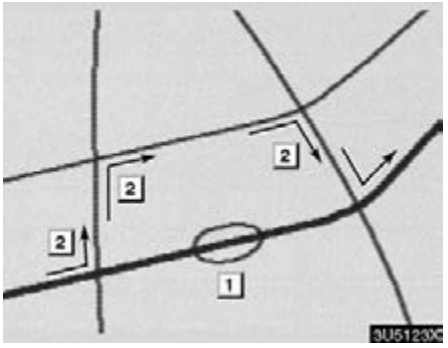
2. Touch “Detour”.

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

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

"Whole Route": By touching this button, the system will calculate an entire new route to the destination.

"Around Traffic": If you touch this button, the system will search for the route based on the traffic congestion information received from XM® NavTraffic. For details, see "XM® NavTraffic" on page 120.



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

1 This position indicates the location of a traffic jam caused by road repairs or an accident.

2 This route indicates the detour suggested by the system.

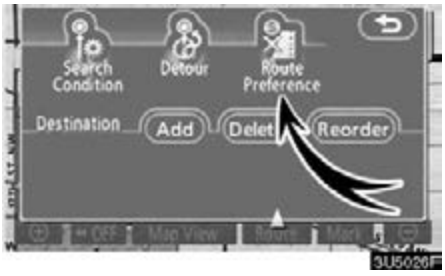
INFORMATION

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

— Route preference

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

1. Touch “Route”.



2. Touch “Route Preference” to change the conditions that determine the route to the destination.

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

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

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

— Starting route from adjacent road

You can start the route guidance from the adjacent road.

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

1. Touch “Route”.

2. Touch “Start from Adjacent Road”.

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

Map view —
— Display POI icons

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

1. Touch “Map View”.

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

A screen with a limited choice of Points of Interest will be displayed. (To change the displayed POI, see page 114.)

- **Selecting POIs to be displayed**

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

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

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

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

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

“Local POI List”: When searching for the nearest Point of Interest, touch this button. Then choose one of the categories. The system will list the points within 20 miles (32 km). (See page 83.)

Touch “Other POIs” on the “Display POI icons” screen.

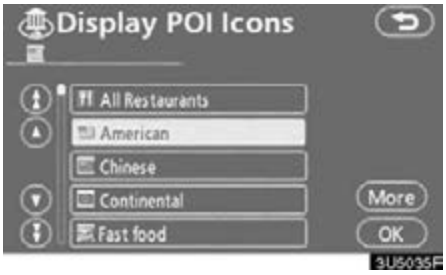
When a Point of Interest category is selected from either the limited list or the complete list, the screen will display symbols of those locations on the map screen.

Select the desired POI categories.

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

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

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



Select the desired POI categories from the list.

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

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

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

- **To 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 “Local POI List” on the “Display POI icons” screen.

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

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

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

- **To set a POI as a destination**

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

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

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

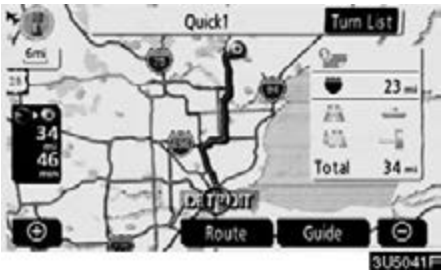
2. When the desired Point of Interest overlaps with the cursor, touch "Enter ⊙".

The screen changes and displays the map location of the selected destination and route preference. (See "Starting route guidance" on page 65.)

— Route overview

1. Touch "Map View".

2. Touch "Route Overview".



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

"Guide": To start guidance.

"Route": To change the route. (See pages 76 and 78.)

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

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

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

Touch “Map” on the “Turn List” screen.

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

— Route preview

1. **Touch “Map View”.**

2. **Touch “Route Preview”.**

: To indicate the next destination.

: To preview the route to the next destination.

: To preview the route to the next destination in fast–forward mode.

: To stop the preview.

: To review the route to the previous destination or starting point.

: To review the route to the previous destination or starting point in fast–forward mode.

: To indicate the previous destination or starting point.

— Route trace

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

INFORMATION

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

Touch “Map View”.

"Record": To start recording the route trace.

"Stop": To stop recording the route trace.

If you touch **"Stop"** to display the following screen.

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

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

SECTION 4

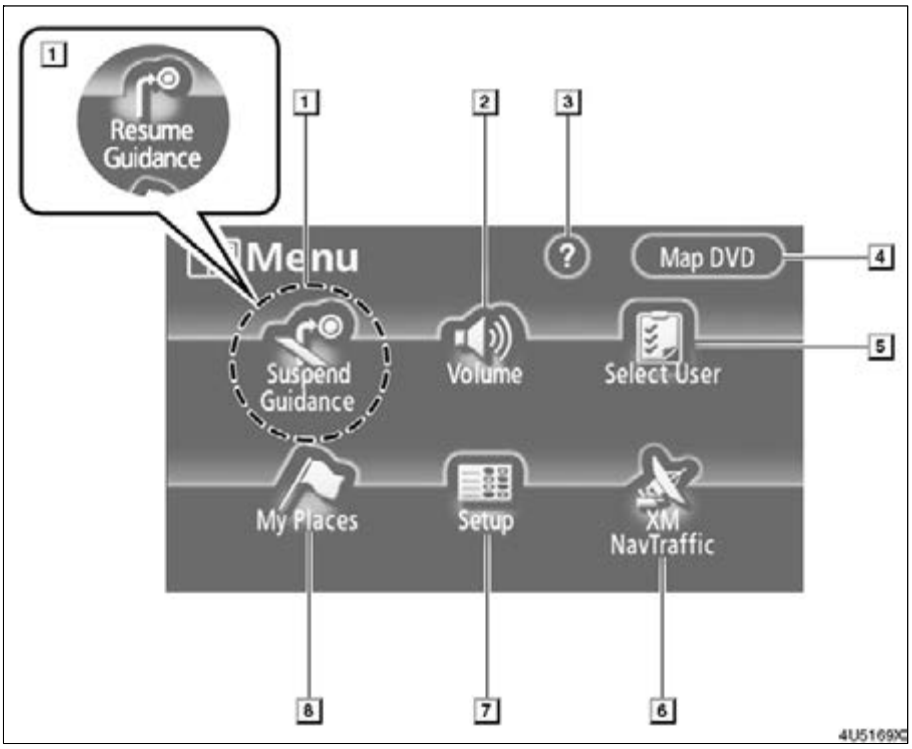
ADVANCED FUNCTIONS

Descriptions of functions for more effective use

- Quick reference (“Menu” screen) 90
- Quick reference (“Setup” screen) 91
- Suspending and resuming guidance 92
- Volume 93
- User selection 94
- **My places** 96
  - Registering memory points 97
  - Editing memory points 98
  - Deleting memory points 103
  - Registering home 104
  - Deleting home 105
  - Registering area to avoid 105
  - Editing area to avoid 106
  - Deleting area to avoid 109
  - Deleting previous points 110
- Setup 110
- XM® NavTraffic 120

Quick reference (“Menu” screen)

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



1 “Suspend Guidance” or “Resume Guidance”

Suspends or resumes guidance. 92

2 “Volume”

Sets the volume for voice guidance. 93

3 “?”

Function help for the “Menu” screen can be viewed on this screen. 29

4 “Map DVD”

Displays information regarding the disc version or covered area. 180

5 “Select User”

Up to 3 different settings for different users can be memorized. 94

6 “XM NavTraffic”

Sets XM® NavTraffic information. 120

7 “Setup”

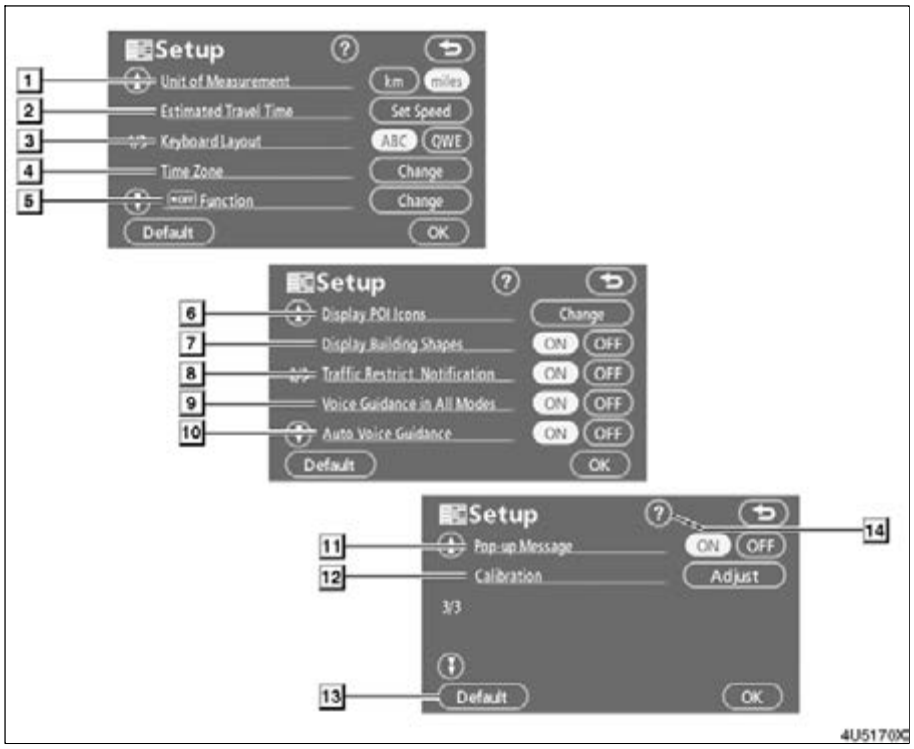
Enables various settings for the navigation system. 91, 110

8 “My Places”

Enables changes to “Memory points”, “Home” and “Areas to avoid”. Enables deletion of the previous point. 96

Quick reference (“Setup” screen)

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



1 “Unit of Measurement”

The distance units **“km”** or **“miles”** can be selected. 111

2 “Estimated Travel Time”

The system to display the travel time and the arrival time to the destination on the route guidance screen can be set. 111

3 “Keyboard Layout”

Key layout can be changed. 112

4 “Time Zone”

The desired time zone can be selected. 113

5 “ Function”

The choice whether to display each touch screen button and current street name on the map screen can be set. 114

6 “Display POI Icons”

A selection of 6 icons displayed on the “Display POI Icons” top screen is possible. 114

7 “Display Building Shapes”

Selection of either ON or OFF to display the building shape on the map screen is possible. 115

8 “Traffic Restrict. Notification”

Notification of seasonal restrictions can be selected. 116

9 “Voice Guidance in All Modes”

Voice guidance can be set in all modes. 116

10 “Auto Voice Guidance”

Automatic voice guidance can be set. 117

11 “Pop−up Message”

Selection of either ON or OFF to display the pop−up message is possible. 117

12 “Calibration”

Adjustment of the current vehicle position mark can be done manually. 118

13 “Default”

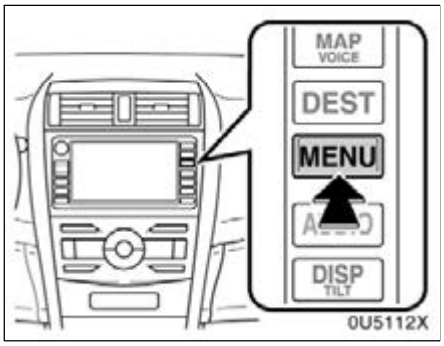
This touch screen button initializes all of the settings. 110

14 “?”

Function help for the “Setup” screen can be viewed. 29

Suspending and resuming guidance

- **To suspend guidance**



1. Push the “MENU” button.

2. Touch “Suspend Guidance”.

INFORMATION

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

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

- **To resume guidance**

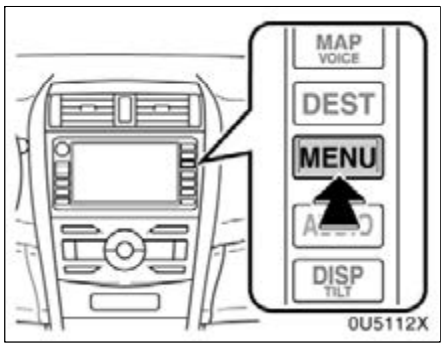
1. Push the “MENU” button.

2. Touch “Resume Guidance”.

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

Volume

The voice guidance volume can be adjusted or switched off.



1. Push the “MENU” button.

2. Touch “Volume”.

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

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

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

3. Touch “OK” to confirm your selection.

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

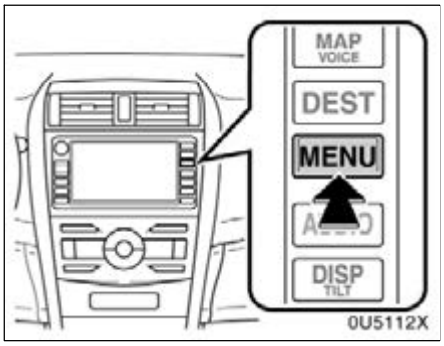
"Adaptive Volume Control": By turning "Adaptive Volume Control" on, the volume is turned up automatically when the vehicle speed exceeds 50 mph (80 km/h).

To turn the "Adaptive Volume Control" system on, touch the button. The indicator will be highlighted.

User selection

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

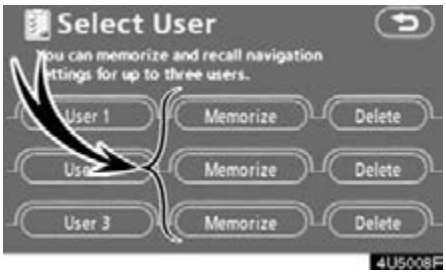
- Map direction
- Map scale
- Map configuration
- Guidance mode
- Setup
- Volume
- Language
- Route trace
- Travel time/arrival time
- Right screen of dual map
- Route preference
- Maintenance notification



1. Push the "MENU" button.

2. Touch "Select User".

- **To register**



1. Touch “Memorize”.

The confirmation screen will be displayed.

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

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

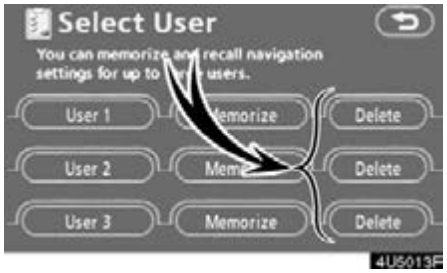
To replace, touch **“Yes”**. To cancel the replacement, touch **“No”** or .

- **To change user**

Touch “User number”.

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

- **To delete user**



1. Touch “Delete”.

The confirmation screen will be displayed.

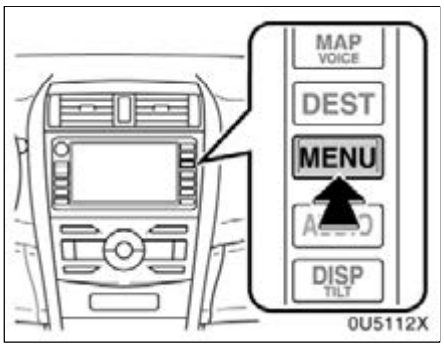
2. To delete, touch “Yes”. To return to the previous screen, touch “No” or .

My places —

Points or areas on the map can be registered.

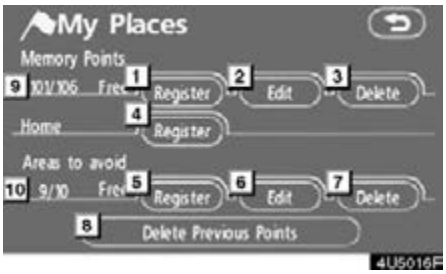
The registered points can be used on the “Destination” screen. (See “ — Destination search by Home” on page 46, “ — Destination search by Quick access” on page 46 and “ — Destination search by Memory” on page 59.)

Registered areas are avoided at the time of route search.



1. Push the “MENU” button.

2. Touch “My Places”.



On this screen, the following operations can be performed.

1 **Registers memory points**
(See " — Registering memory points" on page 97.)

2 **Edits memory points**
(See " — Editing memory points" on page 98.)

3 **Deletes memory points**
(See " — Deleting memory points" on page 103.)

4 **Registers or deletes home**
(See " — Registering home" on page 104 or " — Deleting home" on page 105.)

5 **Registers areas to avoid**
(See " — Registering area to avoid" on page 105.)

6 **Edits areas to avoid**
(See " — Editing area to avoid" on page 106.)

7 **Deletes areas to avoid**
(See " — Deleting area to avoid" on page 109.)

8 **Deletes previous points**
(See " — Deleting previous points" on page 110.)

9 **Number of remaining memory points**

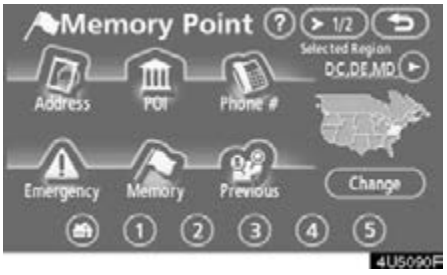
10 **Number of remaining areas to avoid**

— Registering memory points

1. Push the "MENU" button.

2. Touch "My Places" on the "Menu" screen.

3. Touch "Register".



4. Enter the location in the same way as for a destination search. (See "Destination search" on page 43.)

After memory point registration is completed, the "Memory Point" screen will be displayed.

5. Touch “OK”.

To edit registered information, see “ — Editing memory points” on page 98.

INFORMATION
Up to 106 memory points can be registered.

— Editing memory points

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

1. Push the “MENU” button.

2. Touch “My Places” on the “Menu” screen.

3. Touch “Edit”.

4. Touch the desired memory point button.

5. Touch the button to be edited.

"Icon": To select icons to be displayed on the map. (See page 99.)

"Quick Access": To set an attribute. Memory points with a set attribute can be used as a "Quick access" or "Home" button. (See page 100.)

"Name": To edit memory point names. The names can be displayed on the map. (See page 101.)

"Location": To edit location information. (See page 102.)

"Phone #": To edit telephone numbers. (See page 103.)

6. Touch "OK".

- **To change "Icon"**

1. Touch "Icon" on the "Memory Point" screen.

2. Touch the desired icon.

Turn the page by touching **"Page 1"**, **"Page 2"** or **"with Sound"**.

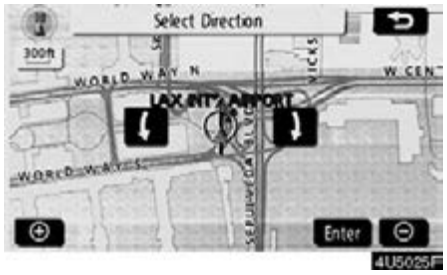
SOUND ICONS

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

1. Touch “with Sound” on the “Change Icon” screen.

2. Touch the desired sound icon.

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



Touch either ◀ or ▶ to adjust the direction. Touch “Enter”.

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

- **To change “Quick Access”**

It is possible to change attributes of the quick access points. Memory points with a set attribute can be used as a “Quick Access” or “Home” touch screen button. (See “ — Destination search by Home” on page 46 and “ — Destination search by Quick access” on page 46.)

1. Touch “Quick Access” on the “Memory Point” screen.

2. Touch the desired attribute.

It is possible to replace a registered attribute.

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

INFORMATION
One “Home” and five “Quick Access” can be set.

DELETING “Quick Access”

1. Touch “Del.”.

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

- **To change “Name”**

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

2. Enter the name using the alphanumeric keys.

Up to 24 letters can be entered.

3. Touch “OK”.

The previous screen will be displayed.

DISPLAYING MEMORY POINT NAMES

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

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

- **To change “Location”**

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

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

3. Touch “Enter”.

The previous screen will be displayed.

- **To change “Phone #” (telephone number)**

1. Touch “Phone #” on the “Memory Point” screen.

2. Enter the number using number keys.

3. Touch “OK”.

The previous screen will be displayed.

— Deleting memory points

1. Push the “MENU” button.

2. Touch “My Places” on the “Menu” screen.

3. Touch “Delete”.

4. Touch the button to be deleted.

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

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

— Registering home

If home has been registered, that information can be recalled by using the “Home” touch screen button on the “Destination” screen. (See “ — Destination search by Home” on page 46.)

1. Push the “MENU” button.

2. Touch “My Places” on the “Menu” screen.

3. Touch “Register”.

4. Enter the location in the same way as for a destination search. (See “Destination search” on page 43.)

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

5. Touch “OK”.

To edit registered information, see “ — Editing memory points” on page 98.

— Deleting home

1. Push the “MENU” button.

2. Touch “My Places” on the “Menu” screen.

3. Touch “Delete”.

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

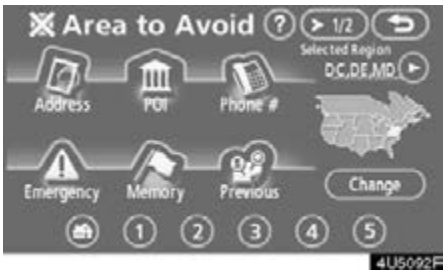
— Registering area to avoid

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

1. Push the “MENU” button.

2. Touch “My Places” on the “Menu” screen.

3. Touch “Register”.



4. Enter the location in the same way as for a destination search, or display the map of the area to be avoided. (See “Destination search” on page 43.)

5. Touch the eight directional touch screen button to move the cursor ⌖ to the desired point on the map.

6. Touch “Enter”.

7. Touch either ▲ or ▼ to change the size of the area to be avoided.

8. Touch “OK”.

INFORMATION

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

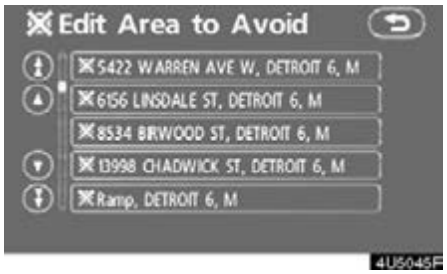
— Editing area to avoid

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

1. Push the “MENU” button.

2. Touch “My Places” on the “Menu” screen.

3. Touch “Edit”.



4. Touch the desired area button.

5. Touch the button to be edited.

"Name": To edit the name of the area to avoid. The names can be displayed on the map. (See page 107.)

"Location": To edit area location. (See page 108.)

"Area Size": To edit area size. (See page 109.)

"Active": To turn on or off the area to avoid feature. To turn on the feature touch "**ON**" on the "Edit Area to Avoid" screen. To turn off the feature touch "**OFF**" on the "Edit Area to Avoid" screen.

6. Touch "OK".

- **To change "Name"**

1. Touch "Name" on the "Edit Area to Avoid" screen.

2. Enter the name using alphanumeric keys.

Up to 24 letters can be entered.

3. Touch "OK".

The previous screen will be displayed.

DISPLAYING NAMES OF AREAS TO BE AVOIDED

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

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

- **To change “Location”**

1. Touch “Location” on the “Edit Area to Avoid” screen.

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

3. Touch “Enter”.

The previous screen will be displayed.

- **To change “Area Size”**

1. Touch “Area Size” on the “Edit Area to Avoid” screen.

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

3. Touch “OK”.

The previous screen will be displayed.

— Deleting area to avoid

1. Push the “MENU” button.

2. Touch “My Places” on the “Menu” screen.

3. Touch “Delete”.

4. Touch the button to be deleted.

“Delete All”: To delete all registered areas to avoid in the system.

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

— Deleting previous points

The previous destination can be deleted.

1. Push the “MENU” button.

2. Touch “My Places” on the “Menu” screen.

3. Touch “Delete Previous Points”.

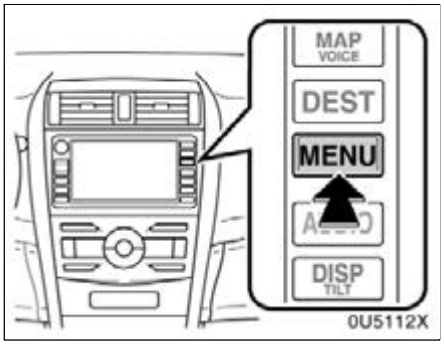
4. Touch the button you want to delete.

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

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

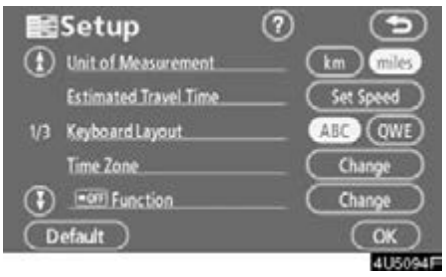
Setup

Setting the items shown on the “Setup” screen can be done. (See page 91.)



1. Push the “MENU” button.

2. Touch “Setup”.



3. Touch the items to be set.

4. Touch “OK”.

The previous screen will be displayed.

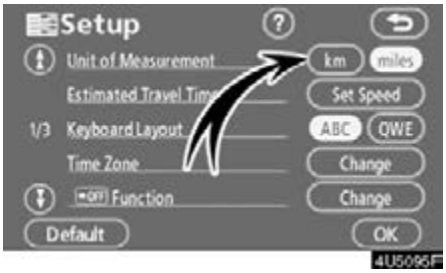
INFORMATION
To reset all setup items, touch “Default”.

- **Unit of Measurement**

Unit of Measurement can be changed.

1. Push the “MENU” button.

2. Touch “Setup” on the “Menu” screen.



3. Touch “km” or “miles” of “Unit of Measurement” to choose the distance unit.

The selected button is highlighted.

4. Touch “OK”.

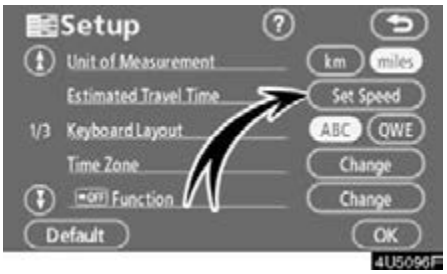
INFORMATION
This function is available only in English or Spanish. To switch language, see “Selecting a language” on page 141.

- **Estimated travel time**

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

1. Push the “MENU” button.

2. Touch “Setup” on the “Menu” screen.



3. Touch “Set Speed” of the “Estimated Travel Time”.

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

To set the default speeds, touch **“Default”**.

5. After setting of the desired speeds is completed, touch “OK”.

INFORMATION

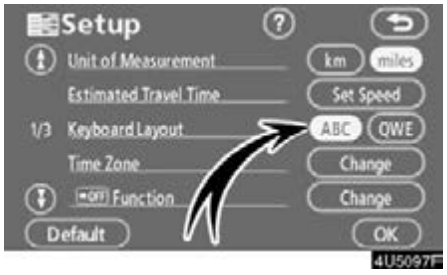
- *The displayed time to the destination is the approximate driving time that is calculated based on the selected speeds and the actual position along the guidance route.*
- *The time shown on the screen may vary greatly depending on progress along the route, which may be affected by road conditions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

- **Input key layout**

Key layout can be changed.

1. Push the “MENU” button.

2. Touch “Setup” on the “Menu” screen.



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

LAYOUT TYPE

▶ "ABC" type

▶ "QWE" type

The selected button is highlighted.

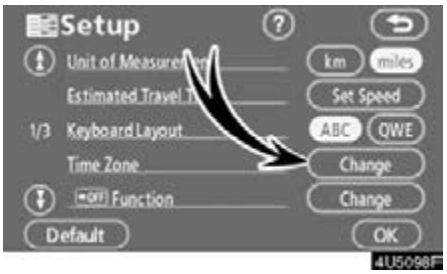
4. Touch "OK".

- **Time zone**

Time zone can be changed.

1. Push the "MENU" button.

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



3. Touch "Change" of "Time Zone".

The "Adjust Time Zone" screen will be displayed on the display.

4. Touch the desired time zone.

The selected button is highlighted.

"Daylight Saving Time": Daylight saving time can be set or cancelled.

To set daylight saving time, touch **"ON"**, and to cancel it, touch **"OFF"**.

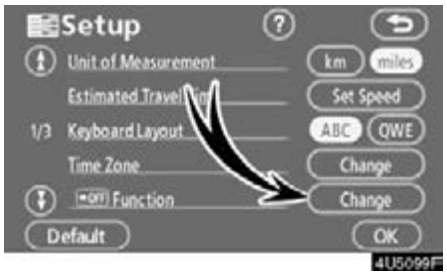
5. Touch "OK".

- **Screen layout function (OFF Function)**

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

1. Push the “MENU” button.

2. Touch “Setup” on the “Menu” screen.



3. Touch “Change” of “ OFF Function”.

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

To set the default, touch **“Default”**.

5. Touch “OK”.

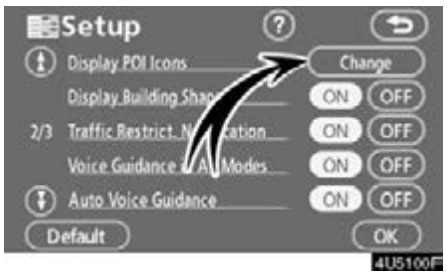
- **POI category change (Display POI Icons)**

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

1. Push the “MENU” button.

2. Touch “Setup” on the “Menu” screen.

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



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

4. Touch the category button to be changed.

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

6. Touch “OK”.

- **Display of building shape**

When the “Display Building Shapes” feature is turned on, the system will display the building shape on the map screen using a scale of 150 feet (50 m) to 300 feet (100 m).

To turn the “Display Building Shapes” on:

1. Push the “MENU” button.

2. Touch “Setup” on the “Menu” screen.

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

3. Touch “ON” of “Display Building Shapes”.

The selected button is highlighted.

4. Touch “OK”.

- **Notifying traffic restriction**

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

To turn the “Traffic Restrict. Notification” on:

1. Push the “MENU” button.

2. Touch “Setup” on the “Menu” screen.

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

3. Touch “ON” of “Traffic Restrict. Notification”.

The selected button is highlighted.

4. Touch “OK”.

- **Voice guidance in all modes**

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

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

To turn the “Voice Guidance in All Modes” on:

1. Push the “MENU” button.

2. Touch “Setup” on the “Menu” screen.

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

3. Touch “ON” of “Voice Guidance in All Modes”.

The selected button is highlighted.

4. Touch “OK”.

- **Auto voice guidance**

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

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

To turn the “Auto Voice Guidance” mode on:

1. Push the “MENU” button.

2. Touch “Setup” on the “Menu” screen.

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

3. Touch “ON” of “Auto Voice Guidance”.

The selected button is highlighted.

4. Touch “OK”.

- **Pop−up message**

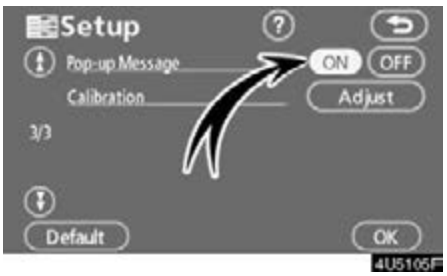
When the “Pop−up Message” is turned on, the pop−up message will be displayed.

To turn the “Pop−up Message” on:

1. Push the “MENU” button.

2. Touch “Setup” on the “Menu” screen.

Then touch twice to display page 3 of the “Setup” screen.

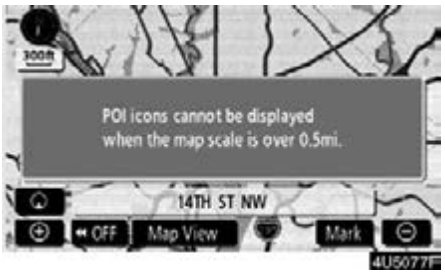


3. Touch “ON” of “Pop−up Message”.

The selected button is highlighted.

4. Touch “OK”.

When the “Pop−up Message” is turned off, the following messages will not displayed.



This message appears when the system is in the POI mode and the map scale is over 0.5 miles (800 m).

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

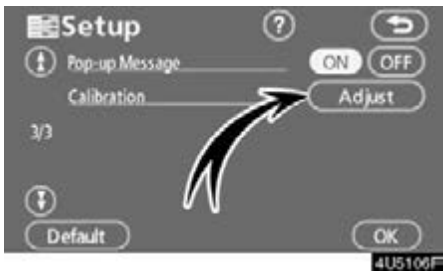
- **Current position/tire change calibration**

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

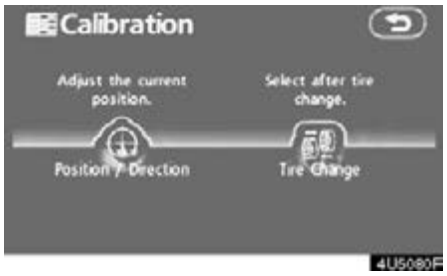
1. Push the “MENU” button.

2. Touch “Setup” on the “Menu” screen.

Then touch twice to display page 3 of the “Setup” screen.



3. Touch “Adjust” of “Calibration”.



4. Touch the desired button.

INFORMATION
For additional information on the accuracy of a current vehicle position, see “Limitations of the navigation system” on page 178.

POSITION/DIRECTION CALIBRATION

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

1. Touch “Position/Direction”.

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

3. Touch “Enter”.

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

5. Touch “Enter”.

The map screen will be displayed.

TIRE CHANGE CALIBRATION

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

To perform a distance calibration procedure, touch "Tire Change" on the "Calibration" screen.

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

XM® NavTraffic

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

To receive the XM® NavTraffic service, an additional genuine Toyota satellite receiver and antenna must be purchased and installed, and the subscription to the XM® Satellite Radio is necessary.

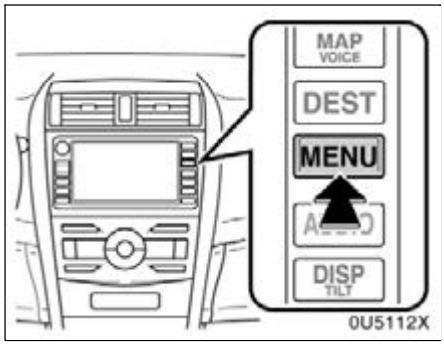
For details about the XM® NavTraffic service coverage area, refer to www.xmradio.com.

- How to activate the XM® NavTraffic service

  To receive the XM® NavTraffic service, it is necessary to activate the service. To activate the service, an extra fee is required in addition to subscription fees for the XM® Satellite Radio. For details about service and activation, call XM® Listener Care at 1−800−967−2346.

Customers should have their radio ID ready; the radio ID can be found by selecting "channel 000" on the radio. For details, see "Displaying the radio ID" on page 152.

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



1. **Push the “MENU” button.**

2. **Touch “XM NavTraffic”.**

On this screen, the following operations can be performed.

1 Show XM® NavTraffic Information

Traffic information is displayed on the map. (See page 122.)

2 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 123.)

3 Traffic Voice Guidance

Traffic information is provided using voice guidance. (See page 124.)

4 Show Free Flowing Traffic

Freely flowing traffic is shown by the arrow on the map. (See page 124.)

INFORMATION

When “OFF” for “Show XM NavTraffic Information” is selected, “Auto Avoid Traffic”, “Traffic Voice Guidance” and “Show Free Flowing Traffic” will not operate.

(a) Show XM® NavTraffic information

XM® NavTraffic information is displayed on the map.

▶ **Map screen**

▶ **Freeway information screen**

1 XM® NavTraffic icon

When any traffic information has been received, the XM® NavTraffic icon will appear on the map screen. Touching the XM® NavTraffic icon on the screen will start voice guidance for the traffic information. (See page 123.)

INFORMATION

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

2 XM® NavTraffic information arrow

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

"Orange": Heavy congestion

"Yellow": Moderate traffic

"Green": Freely flowing traffic

3 XM® NavTraffic indicator

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

“White”: Traffic information has been received.

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

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

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

Touch “ON” of the “Show XM NavTraffic Information.”.

(b) Auto Avoid Traffic

The guidance route automatically changes to another route to avoid heavy congestion.

Touch “ON” of the “Auto Avoid Traffic”.

When congestion information about the guidance route has been received, a screen will appear to ask you whether to reroute to avoid the congestion.

If you wish to reroute, touch **“Yes”**. Another route to allow you to avoid the congestion will appear.

If you do not wish to reroute, touch **“No”**.

(c) Traffic Voice Guidance

You can receive congestion information through voice guidance while being guided to your destination.

Touch “ON” of the “Traffic Voice Guidance”.

INFORMATION
This function is available only in English. To switch language, see “Selecting a language” on page 141.

(d) Show Free Flowing Traffic

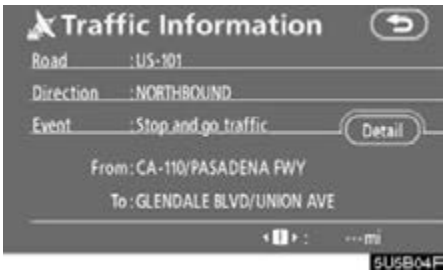
Freely flowing traffic is shown with the arrow.

Touch “ON” of the “Show Free Flowing Traffic”.

(e) XM® NavTraffic text information

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

1. Touch “Info.” to display the “Traffic Information” screen.



2. Touch “Detail” to display detailed traffic event information.

SECTION 5

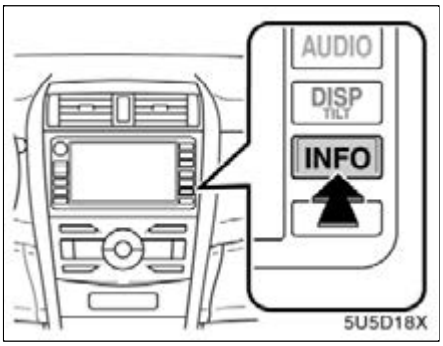
OTHER FUNCTIONS

Other functions

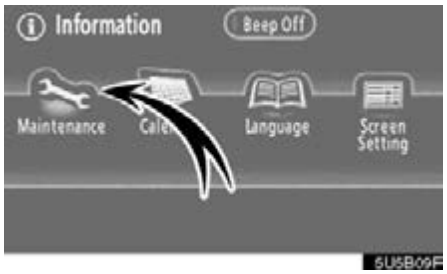
- **Maintenance information** 128
  - Maintenance information setting 128
  - Dealer setting 130
- **Calendar with memo** 132
  - Adding a memo 134
  - Editing a memo 135
  - Memo list 135
- Screen adjustment 137
- Screen setting 138
- Beep setting 141
- Selecting a language 141

Maintenance information — — Maintenance information setting

When the navigation system is turned on, the “Information” screen displays when it is time to replace a part or certain components. (See page 24.)



1. Push the “INFO” button.



2. Touch “Maintenance”.

3. Touch the desired button.

For details of each touch screen button, see “INFORMATION ITEMS” on page 129.

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

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

“Set Dealer”: To register or edit dealer information. (See “ — Dealer setting” on page 130.)

If **“ON”** is selected, the system gives maintenance information with the “Information” screen when the system is turned on. (See page 24.)

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

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

INFORMATION ITEMS

“ENGINE OIL”: Replace engine oil

“OIL FILTER”: Replace engine oil filter

“ROTATION”: Rotate tires

“TIRES”: Replace tires

“BATTERY”: Replace battery

“BRAKE PAD”: Replace brake linings

“WIPERS”: Replace wiper blades

“LLC”: Replace engine coolant

“BRAKE OIL”: Replace brake fluid

“ATF”: Replace ATF (Automatic Transmission Fluid)

“SERVICE”: Scheduled maintenance

“AIR FILTER”: Replace air filter

“PERSONAL”: New information items can be created separately from provided ones.

4. Input the conditions.

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

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

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

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

5. Touch “OK”.

The screen then returns to the “Maintenance” screen.

INFORMATION

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

— Dealer setting

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

1. Push the “INFO” button.

2. Touch “Maintenance” on the “Information” screen.

3. Touch “Set Dealer” on the “Maintenance” screen.

4. If the dealer has not been registered, enter the location of the dealer in the same way as for a destination search. (See “Destination search” on page 43.)

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

5. Touch the button to be edited.

“Dealer”: To enter the name of a dealer. (See page 131.)

“Contact”: To enter the name of a dealer member. (See page 131.)

“Location”: To set a location. (See page 131.)

“Phone #”: To set a telephone number. (See page 132.)

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

“Enter ⊙”: To set the displayed dealer as a destination. (See “Starting route guidance” on page 65.)

- **To edit “Dealer” or “Contact”**

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

2. Enter the name using the alphanumeric keys.

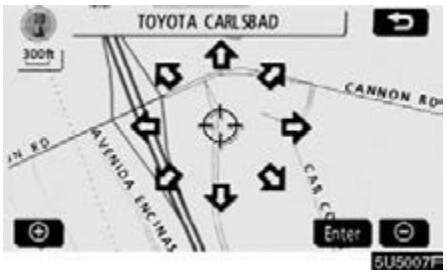
Up to 24 letters can be entered.

3. Touch “OK”.

The previous screen will be displayed.

- **To edit “Location”**

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



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

3. Touch “Enter”.

The previous screen will be displayed.

- **To edit “Phone #” (telephone number)**

1. Touch “Phone #” on the “Edit Dealer” screen.

2. Enter the number using number keys.

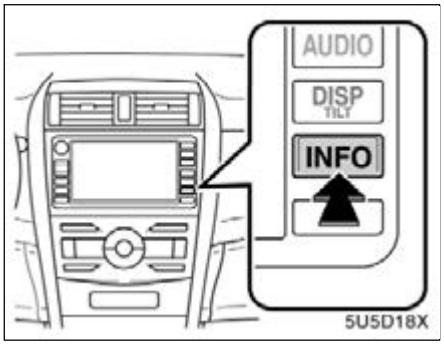
3. Touch “OK”.

The previous screen will be displayed.

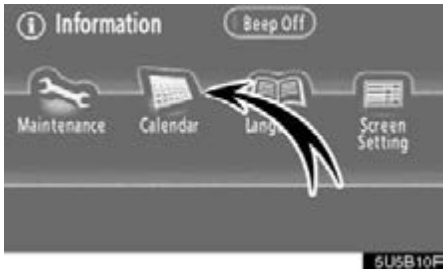
Calendar with memo —

It is possible to enter memos for particular dates on the calendar. The system informs you of the memo entry when the system is turned on. (See page 25.)

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



1. Push the “INFO” button.



2. Touch “Calendar”.

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

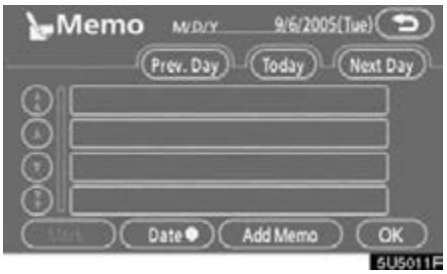
or **:** To change month.

or **:** To change year.

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

"List": To display the list of registered memos. (See " — Memo list" on page 135.)

Touching a date button on the "Calendar" screen displays the "Memo" screen.



Memos can be edited by touching the list button. (See " — Editing a memo" on page 135.)

"Add Memo": To add a memo. (See " — Adding a memo" on page 134.)

"Mark ○": To change the color of the mark displayed next to the date. To default the mark color, touch **"Delete"** on the "Mark color" screen.

"Date ○": To change the color of the date. To default the date color, touch **"Delete"** on the "Date color" screen.

"Prev. Day": To go to the "Memo" screen of the previous date.

"Today": To go to the "Memo" screen for the current day.

"Next Day": To go to the "Memo" screen of the next date.

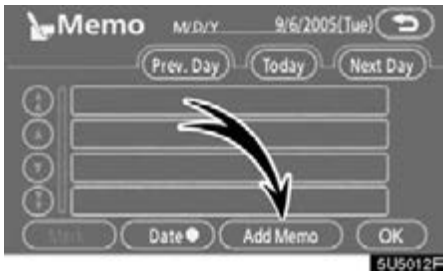
— Adding a memo

If a memo is added, the system informs of the memo entry when the system is started on the memo date. (See page 25.)

1. Push the “INFO” button.

2. Touch “Calendar” on the “Information” screen.

3. Touch the date you want to add a memo on the “Calendar” screen.



4. Touch “Add Memo”.

Up to 100 memos can be added.

5. Touch “Memo”.

6. Enter text using the keys.

Up to 24 letters can be entered.

After entering the text, touch **“OK”** at the bottom right of the screen.

7. When registering information on the memo, touch “Location”.

A screen similar to the destination search screen appears. Search the same way as searching a destination. (See “Destination search” on page 43.)

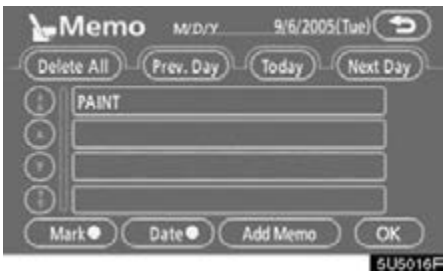
— Editing a memo

The registered memo can be edited.

1. Push the “INFO” button.

2. Touch “Calendar” on the “Information” screen.

3. Touch the day you want to edit a memo on the “Calendar” screen.



4. Touch the memo to be edited.

5. Touch the item to be edited.

“Memo”: To edit a memo. (See “ — Adding a memo” on page 134.)

“Location”: To change a registered location. (See “ — Adding a memo” on page 134.)

“Enter ⊙”: To set the registered location as a destination. (See “Starting route guidance” on page 65.)

“Delete”: To delete the memo.

— Memo list

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

1. Push the “INFO” button.

2. Touch “Calendar” on the “Information” screen.

3. Touch “List” on the “Calendar” screen.

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

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

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

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

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

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

“Period”: To display the list of memos for a specified period. (See page 136.)

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

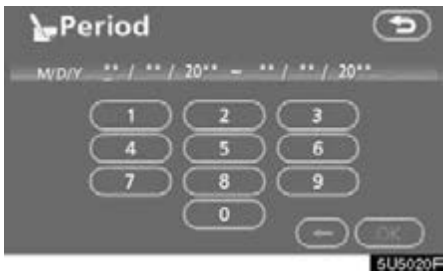
"Delete All": To delete all the displayed memos.

A message will be displayed.

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

- **To display memos for a specified period of time**

1. Touch "Period" on the "Memo Search" screen.



2. Enter the period using the numeral keys.

The period from January 1, 2007 through December 31, 2026 can be set for searching.

3. After setting the period, touch "OK".

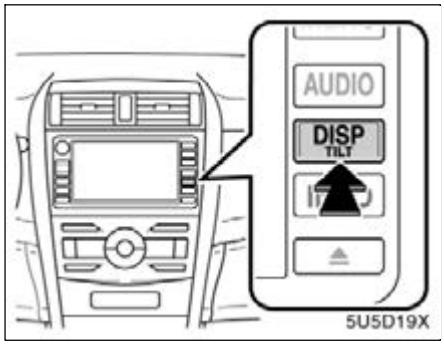
The "Memo List" screen will be displayed.

Screen adjustment

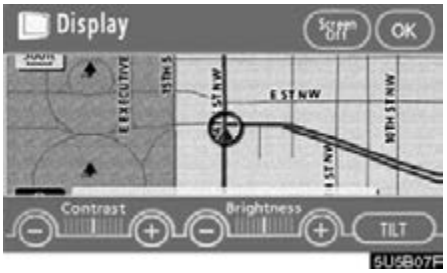
You can adjust the brightness and contrast of the screen. You can also turn the display off, and change the screen to either day or night mode.

- **Contrast and brightness adjustment**

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



1. Push the "DISP/TILT" button.



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

"Contrast" "+": Strengthens the contrast of the screen.

"Contrast" "–": Weakens the contrast of the screen.

"Brightness" "+": Brightens the screen.

"Brightness" "–": Darkens the screen.

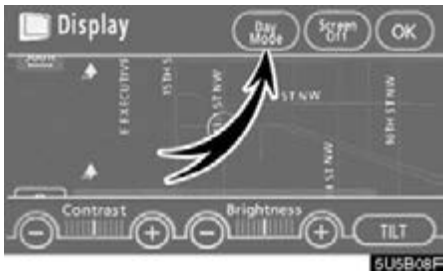
3. After adjusting the screen, touch "OK".

The screen goes off when **"Screen Off"** is touched. To turn the display screen back on, push any button such as **"DISP/TILT"**, etc. The selected screen appears.

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

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

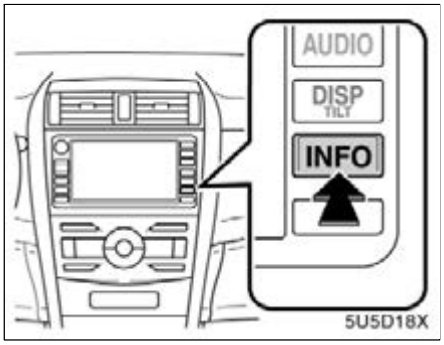
Depending on the position of the headlight switch, the screen changes to the day mode or night mode.



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

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

Screen setting

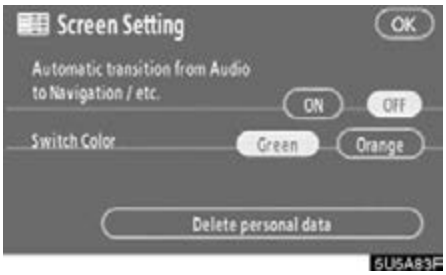


1. Push the "INFO" button.

2. Touch "Screen Setting".

(a) Automatic transition

You can select a function that enables automatic return to the navigation screen from the audio screen.



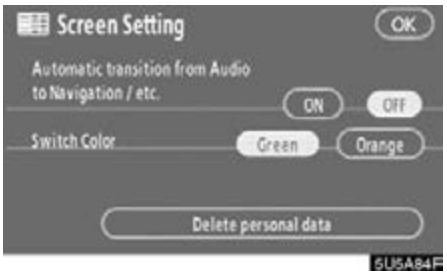
Select “ON” or “OFF” and then touch “OK”.

“ON”: The navigation screen automatically returns from the audio screen 20 seconds after the end of audio screen operation.

“OFF”: The audio screen remains on.

(b) Switch color

You can select the color of the touch screen buttons.



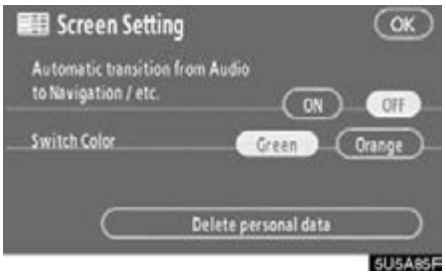
Select “Green” or “Orange” and then touch “OK”.

(c) Delete personal data

The following personal data can be deleted or returned to their default settings:

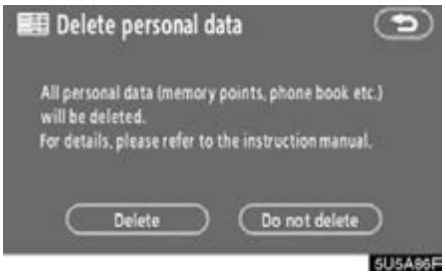
- **Maintenance conditions**
- **Maintenance information “off” setting**
- **Memory points**
- **Areas to avoid**
- **Previous points**
- **Route trace**
- **User selection settings**

This function is available only when the vehicle is not moving.



1. Touch “Delete personal data”.

The “Delete personal data” screen appears.



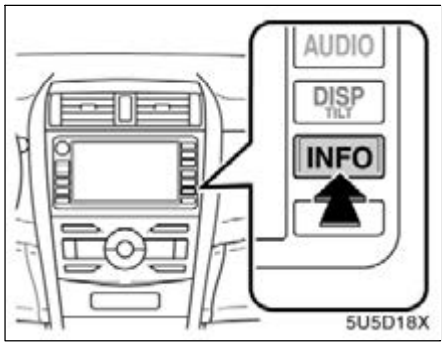
2. Touch “Delete”.

The “Confirmation to delete all personal data” screen appears.

3. Touch “Yes”.

Beep setting

You can set a beep sound off.



1. Push the “INFO” button.

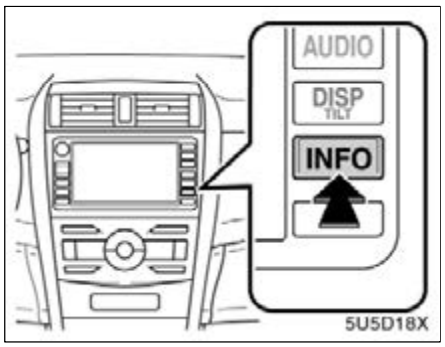
2. Touch “Beep Off”.

“Beep Off” is highlighted.

To switch the beep sound on, touch **“Beep Off”** again.

Selecting a language

The language of the touch screen buttons, pop−up messages and the voice guidance can be changed.



1. Push the “INFO” button.

2. Touch “Language”.

3. Touch “English”, “Français” or “Español” to select a language.

If a screen other than for the navigation system is displayed, the current screen would change to the “CAUTION” screen by pushing the **“MAP/VOICE”**, **“DEST”** or **“MENU”** button.

4. Touch “OK”.

The language is changed and the screen returns to the map display.

SECTION 6

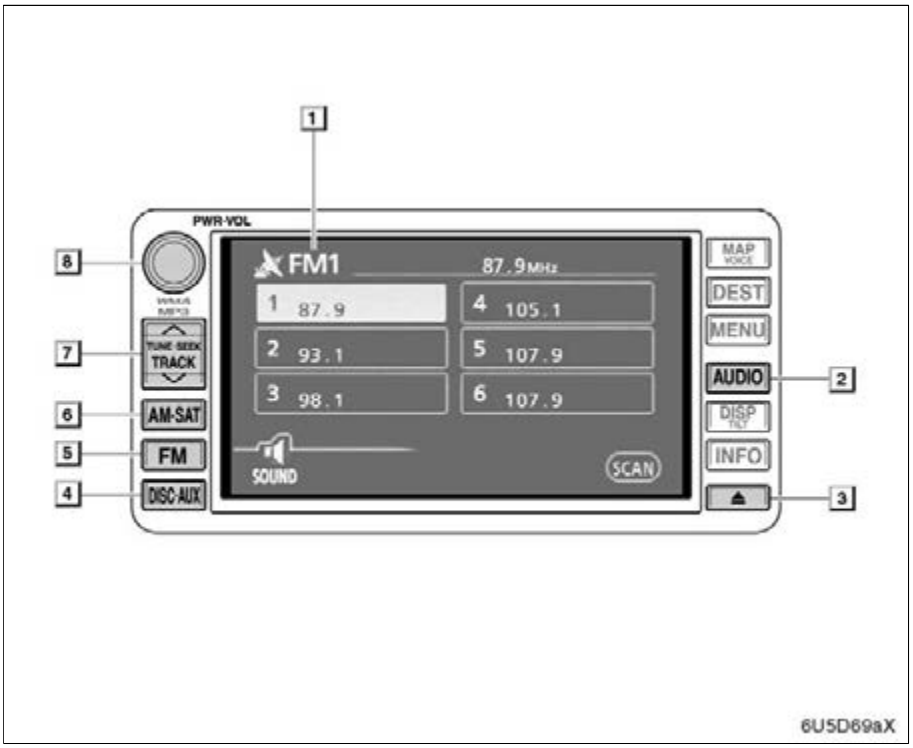
AUDIO SYSTEM

Audio system

- Quick reference 144
- **Using your audio system** 145
  - Some basics 145
  - Radio operation 149
  - CD player operation 158
- Audio remote controls 169
- Audio system operating hints 170

Quick reference

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



1 **Function menu display screen**
To control the radio or CD player, touch the touch screen buttons. For details, see page 147.

2 **"AUDIO" button**
Push this button to display the audio control screen. For details, see page 146.

3 **"⏏" button**
Push this button to insert or eject a disc. For details, see pages 158 and 160.

4 **"DISC·AUX" button**
Push this button to turn the CD player and AUX on. For details, see pages 146, 149 and 160.

5 **"FM" button**
Push this button to choose an FM station. For details, see pages 146 and 149.

6 **"AM·SAT" button**
Push this button to choose an AM or SAT station. For details, see pages 146 and 149.

7 **"TUNE·SEEK/TRACK" button**
Push either side of this button to step up or down the frequency, or to access a desired track or file. For details, see pages 149, 151, 154, 161 and 165.

8 **"PWR·VOL" knob**
Push this knob to turn the audio system on and off, and turn it to adjust the volume. For details, see page 146.

Using your audio system — — Some basics

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

Vehicles with smart key system —

Your audio system works when the “ENGINE START STOP” switch is in ACCESSORY or IGNITION ON mode.

Vehicles without smart key system —

Your audio system works when the engine switch is in “ACC” or “ON” position.

NOTICE

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

⚠ CAUTION

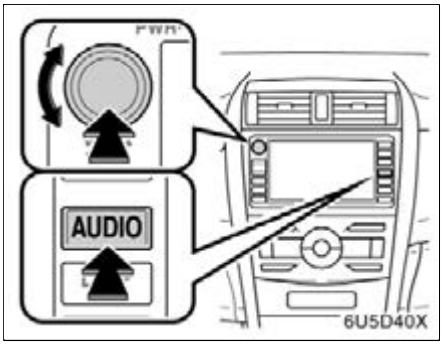
For vehicles sold in U.S.A. and Canada:

- **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.

- **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.**

- **Turning the system on and off**

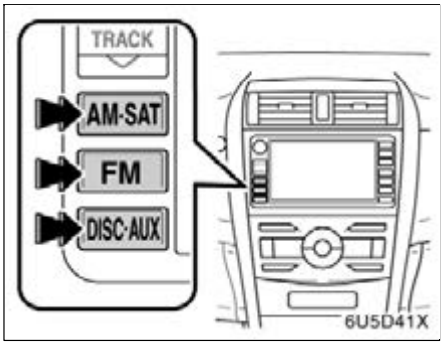


"AUDIO": Push this button to display touch screen buttons for audio system (audio control mode).

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

You can select the function that enables automatic return to the previous screen from the audio screen. See "(a) Automatic transition" on page 139 for details.

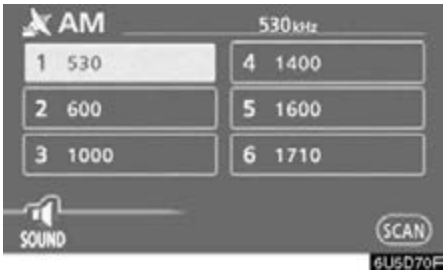
- **Switching between functions**

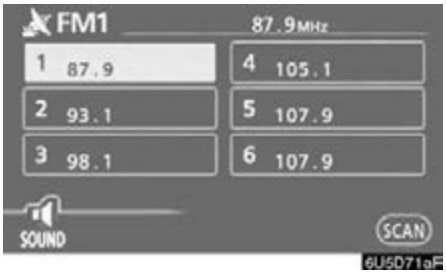


Push "AM·SAT", "FM" or "DISC·AUX" button to turn on the desired mode. The selected mode turns on immediately.

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

If the disc is not inserted, the "CD" screen will not appear.





The function buttons for radio and CD player operation are displayed on the screen when the audio control mode is selected.

Touch them lightly and directly on the screen.

The selected button is highlighted.

INFORMATION

- ***If the system does not respond to a touch of a touch screen button, move your finger away from the screen and then touch it again.***
- ***You cannot operate dimmed touch screen buttons.***
- ***Wipe off fingerprints on the surface of the display using a glass cleaning cloth.***

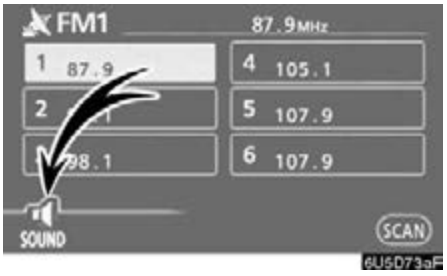
- **Tone and balance**

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

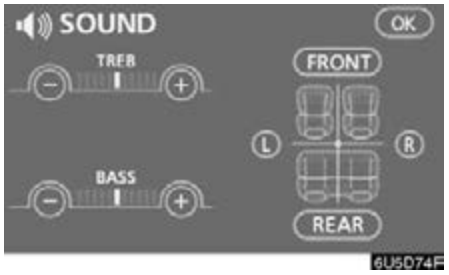
A good balance of the left and right stereo channels and of the front and rear sound levels is also important.

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

1. Push the "AUDIO" button.



2. Touch "SOUND".



3. Touch the desired button.

"TREB" "+" or "–": Adjusts high–pitched tones.

"BASS" "+" or "–": Adjusts low–pitched tones.

"FRONT" or "REAR": Adjusts sound balance between the front and rear speakers.

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

4. Touch "OK".

The tone of each mode (for such as AM, FM1 and CD player) can be adjusted.

- **Your CD player**

When you insert a disc, insert it with the label side up. The CD player will play from track 1 through to the end of the disc. Then it will play from track 1 again.

NOTICE

Never try to disassemble or oil any part of the CD player. Do not insert anything other than discs into the slot.

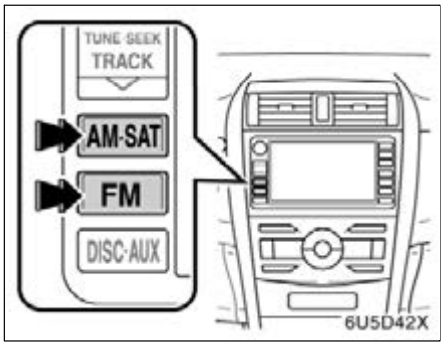
The player is intended for use with 12 cm (4.7 in.) discs only.

- **AUX adapter**

The sound of portable audio players connected to the AUX adapter can be enjoyed. Push the **"DISC·AUX"** button to switch to AUX mode. For details, refer to the "Owner's Manual".

— Radio operation

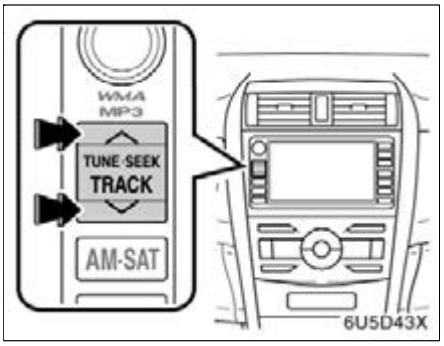
- **Listening to the radio**



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

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

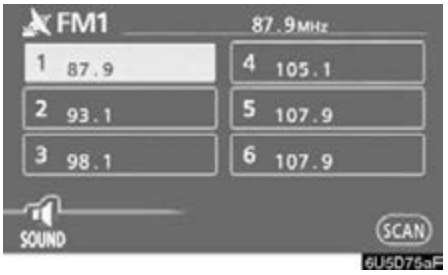
If your vehicle is equipped with a satellite radio broadcast system, when you push the **"AM·SAT"** button, "AM", "SAT1", "SAT2", "SAT3" station appears on the display. For details about satellite radio broadcast, see "— Radio operation (XM® Satellite Radio broadcast)" on page 151.



Push "∧" or "∨" sides of the "TUNE·SEEK/TRACK" button to step up or step down the station band.

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

- **Presetting a station**



1. Tune in the desired station.

2. Touch one of the channel selector buttons (1 — 6) you want and hold it until a beep is heard.

This sets the station to the touch screen button and the frequency appears on the touch screen button.

Each radio mode can store up to 6 stations. To change the preset station to a different one, follow the same procedure.

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

- **Selecting a station**

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

Preset tuning: Touch the channel selector button (1 — 6) for the station you want. The touch screen button is highlighted and the station frequency appears on the screen.

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

To scan all the frequencies: Touch **"SCAN"** on the screen briefly. "SCAN" appears on the screen. The radio will find the next station and stay there for a few seconds, and then scan again. To select a station, touch **"SCAN"** again.

To scan the preset stations: Touch **"SCAN"** on the screen for longer than approximately a second. "P·SCAN" appears on the screen. The radio will tune in the next preset station, stay there for a few seconds, and then move to the next preset station. To select a station, touch **"SCAN"** again.

— Radio operation (XM® Satellite Radio broadcast)

To listen to a satellite radio broadcast in your vehicle, an additional genuine Toyota satellite receiver and antenna must be purchased and installed, and the subscription to the XM® Satellite Radio is necessary.

- **How to subscribe to an XM® Satellite Radio**

An XM® Satellite Radio is a tuner designed exclusively to receive broadcasts provided under a separate subscription. Availability is limited to the 48 contiguous states and 10 Canadian provinces.

How to subscribe:

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

For detailed information about XM® Satellite Radio or to subscribe:

U.S.A.—

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

Canada—

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

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

Customers should have their radio ID ready; the radio ID can be found by selecting "channel 000" on the radio. For details, see the "Displaying the radio ID" that follows.

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

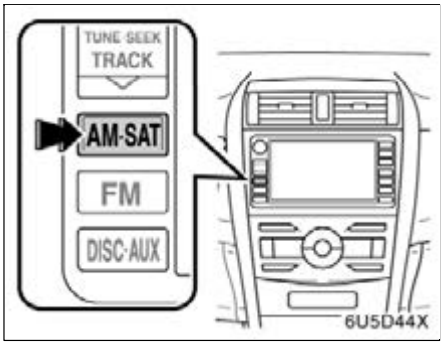
Satellite tuner technology notice: Toyota's satellite radio tuners are awarded Type Approval Certificates from XM® Satellite Radio Inc. as proof of compatibility with the services offered by the XM® Satellite Radio.

- **Displaying the radio ID**

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

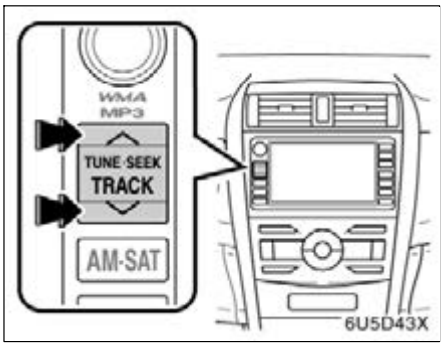
If you select the "CH 000" using the **"TUNE·SEEK/TRACK"** button, the ID code of 8 alphanumeric characters appears. If you select another channel, display of the ID code is canceled. The channel (000) alternates the display between the radio ID and the specific radio ID code.

- **Listening to satellite radio**



Push the "AM·SAT" button to choose either an AM station or a SAT (satellite) channel.

Besides "AM", "SAT1", "SAT2" or "SAT3" appears on the display.



Push "∧" or "∨" sides of the "TUNE·SEEK/TRACK" button to select the next or previous channel.

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

- **Channel category**

Touch either **"TYPE◀"** or **"TYPE▶"** to go to the next or previous category.

- **Presetting a channel**

1. Tune in the desired channel.

2. Touch one of the channel selector buttons (1 — 6) and hold it until a beep is heard.

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

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

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

- **Selecting a channel**

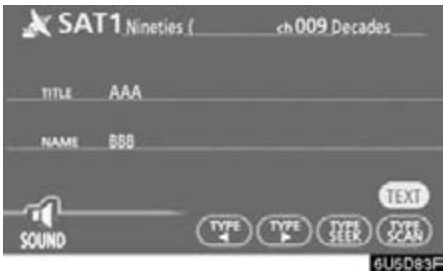
Tune in the desired channel using one of the following methods.

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

To select channel within the current category: Push "∧" or "∨" sides of the **"TUNE·SEEK/TRACK"** button. The radio will step up or down the channel within the current channel category. Touch **"TYPE SEEK"**. The radio will step up the channel within the current channel category.

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

- **Displaying the title and name**



When you touch **"TEXT"**, the song/program title and the artist name/feature are displayed.

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

When you touch **"TEXT"** again, the display returns.

- **If the satellite radio tuner malfunctions**

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

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

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

NOTICE

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

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

— Reorient or relocate the receiving antenna.

— Increase the separation between the equipment and receiver.

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

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

Information to user

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.*

— CD player operation

The CD player can play audio CDs, CD text, WMA discs and MP3 discs.

- Audio CD, CD text 161
- MP3/WMA disc 164

For appropriate discs for this changer, see “Audio system operating hints” on page 170.

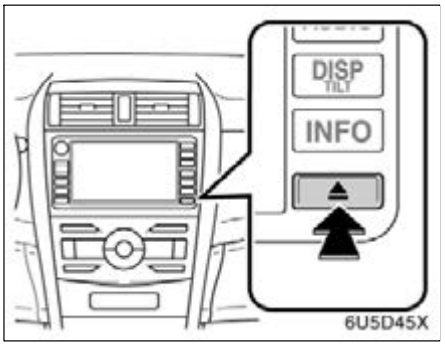
(a) Inserting discs

Vehicles with smart key system —

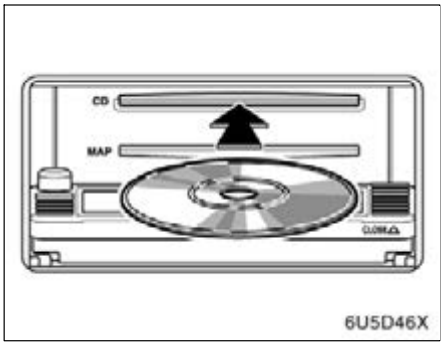
The “ENGINE START STOP” switch must be set at ACCESSORY or IGNITION ON mode.

Vehicles without smart key system —

The engine switch must be set at “ACC” or “ON” position.



1. Push the “⏏” button.



2. Insert a disc.

3. Push the "CLOSE▲" button to close the display.

After insertion, the set disc is automatically loaded.

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

⚠ CAUTION

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

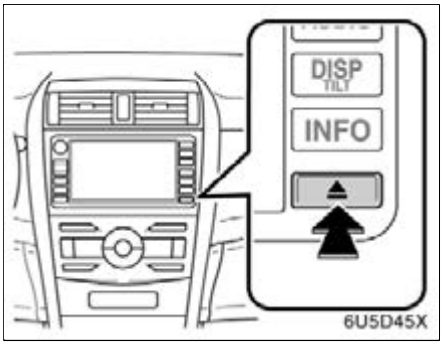
NOTICE

Do not obstruct the display while it is moving. It could damage your audio system.

INFORMATION

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

(b) Ejecting discs



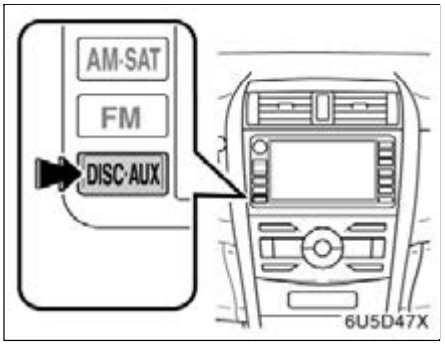
Push the "⏏" button.

The display will open and the disc will be ejected. A disc can then be inserted.

NOTICE

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

(c) Playing a disc



Push the "DISC·AUX" button if the disc are already loaded in the CD player.

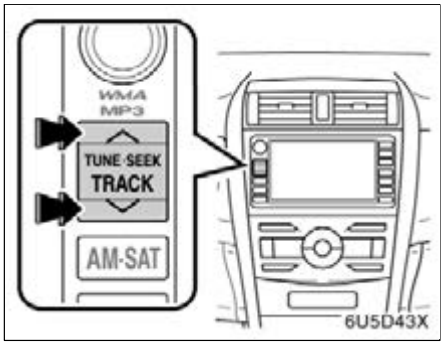
The "CD" screen will be displayed.

(d) Operating an audio CD

- **Playing an audio CD**

Push the "AUDIO" button to display this screen.

- **Selecting a desired track**



"TUNE·SEEK/TRACK" button: Use for a direct access to a desired track.

Push **"∧"** or **"∨"** sides of the **"TUNE·SEEK/TRACK"** button and repeat it until the desired track number appears on the screen. As you release the button, the CD player will start playing the selected track from the beginning.

"TRACK LIST": The desired track can be selected from a list. This function is available only when the vehicle is not moving.

Touch **"TRACK LIST"**. The track list is displayed.

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

: By touching this button, the list moves up by 6 track groups. If this button is touched when the top page of the list is displayed, the last page is displayed.

: By touching this button, the list moves down by 6 track groups. If this button is touched when the last page of the list is displayed, the top page is displayed.

Fast forward: Push **"∧"** sides of the **"TUNE·SEEK/TRACK"** button and hold it to fast forward the disc. When you release the button, the CD player will resume playing from that position.

Reverse: Push **"∨"** sides of the **"TUNE·SEEK/TRACK"** button and hold it to reverse the disc. When you release the button, the CD player will resume playing.

- **Searching for a desired track**

While the disc is playing, touch "SCAN" briefly.

"SCAN" appears on the screen. The CD player will play the next track for 10 seconds, then scan again. To select a track, touch **"SCAN"** once again. If the CD player reaches the end of the disc, it will start playing at track 1.

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

- **Other functions**

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

While the track is playing, touch "RPT" briefly.

"RPT" appears on the screen. When the track is finished, the CD player will automatically go back to the beginning of the track and play the track again. To cancel it, touch **"RPT"** once again.

"RAND": Use it for automatic and random selection.

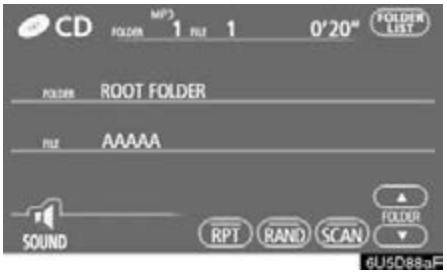
While the disc is playing, touch "RAND" briefly.

"RAND" appears on the screen. The system selects a track on the disc being listened to in random order. To cancel it, touch **"RAND"** once again.

If a CD−TEXT disc is inserted, the title of the disc and track will be displayed. Up to 29 letters can be displayed.

(e) Operating a MP3/WMA disc

- **Playing a MP3/WMA disc**



Push the "AUDIO" button and touch a MP3/WMA disc number to display this screen.

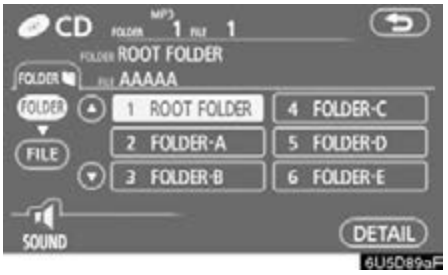
- **Selecting a desired folder**

"FOLDER▲": Touch this button to go to the next folder.

"FOLDER▼": Touch this button to go to the previous folder.

"FOLDER LIST": The desired folder can be selected in a list. This function is available only when the vehicle is not moving.

Touch **"FOLDER LIST"**. The folder list is displayed.



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

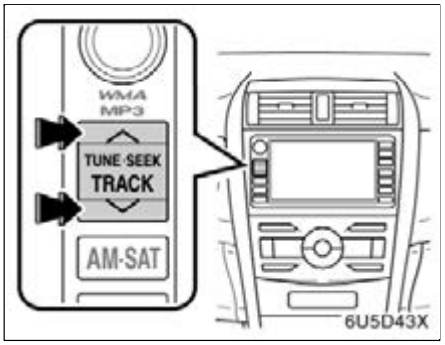
: By touching this button, the list moves up by 6 folder groups. If this button is touched when the top page of the list is displayed, the last page is displayed.

: By touching this button, the list moves down by 6 folder groups. If this button is touched when the last page of the list is displayed, the top page is displayed.

"FILE": The file list is displayed.

"DETAIL": Details of the file currently playing is displayed. This function is available only when the vehicle is not moving.

- **Selecting a desired file**



"TUNE·SEEK/TRACK" button: Use for direct access to a desired file.

Push **"∧"** or **"∨"** sides of the **"TUNE·SEEK/TRACK"** button and repeat it until the desired file number appears on the display. As you release the button, the CD player will start playing the selected file from the beginning. When "RAND" or "FLD·RPT" is on, the file number within the folder you are currently being listened to appears.

Fast forward: Push **"∧"** sides of the **"TUNE·SEEK/TRACK"** button and hold it to fast forward the disc. When you release the button, the CD player will resume playing from that position.

Reverse: Push **"∨"** sides of the **"TUNE·SEEK/TRACK"** button and hold it to reverse the disc. When you release the button, the CD player will resume playing.

"FILE": The desired file can be selected in a list. This function is available only when the vehicle is not moving.

Touch **"FILE"**. The file list is displayed.

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

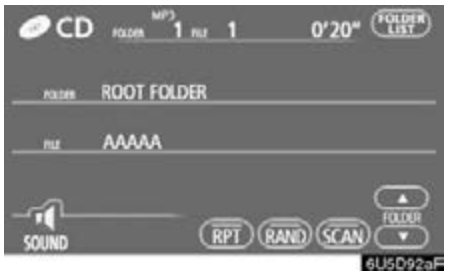
: By touching this button, the list moves up by 6 file groups. If this button is touched when the top page of the list is displayed, the last page is displayed.

: By touching this button, the list moves down by 6 file groups. If this button is touched when the last page of the list is displayed, the top page is displayed.

"FOLDER": The folder list is displayed.

"DETAIL": Details of the file currently playing is displayed. This function is available only when the vehicle is not moving.

- **Searching for a desired file**

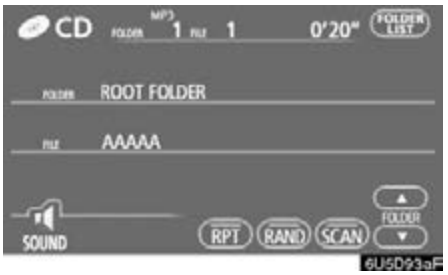


While the disc is playing, touch "SCAN" briefly.

"SCAN" appears on the screen. The changer will play the next file in the folder for 10 seconds, then scan again. To select a file, touch **"SCAN"** once again. If the changer reaches the end of the folder, it will start playing from file 1.

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

- **Searching for a desired folder**

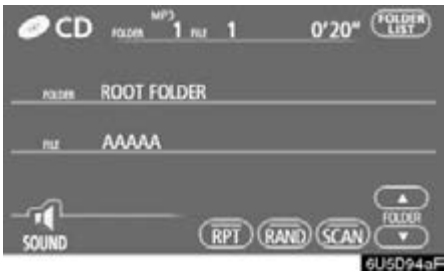


While the disc is playing, touch "SCAN" and hold it until the "FLD·SCAN" appears on the screen.

The program at the beginning of each folder will be played for 10 seconds. To continue listening to the program of your choice, touch **"SCAN"** once again.

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

- **Other functions**



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

Repeating a file —

While the file is playing, touch"RPT" briefly.

"RPT" appears on the screen. When the file is finished, the CD player will automatically go back to the beginning of the file and play the file again. To cancel it, touch **"RPT"** once again.

Repeating a folder —

While the folder is playing, touch "RPT" and hold it until the "FLD·RPT" appears on the screen.

When the folder is finished, the CD player will automatically go back to the beginning of the folder and play the folder again. To cancel it, touch **"RPT"** once again.

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

Playing the files in one folder in random order —

While the disc is playing, touch "RAND" briefly.

"RAND" appears on the screen. The system selects a file in the folder you are currently listening to. To cancel it, touch **"RAND"** once again.

Playing the files in all the folders on one disc in random order —

While the disc is playing, touch "RAND" and hold it until the "FLD·RAND" appears on the screen.

The system selects a file in all the folders. To cancel it, touch the button once again.

When a file is skipped or the system is inoperative, touch **"RAND"** to reset.

(f) If the player malfunctions

If the player or another unit equipped with the player malfunctions, your audio system will display following messages.

If "No CD" appears on the display: It indicates that there is no disc in the CD player.

If "CD Check" appears on the display: It indicates that the disc dirty, damaged, or it was inserted upside down. Clean the disc or insert it correctly. If a disc which is not playable is inserted, "CD Check" will also appear on the screen. For appropriate discs for this player, see "Audio system operating hints" on page 170.

If "CD Error" appears on the display: The following causes are possible.

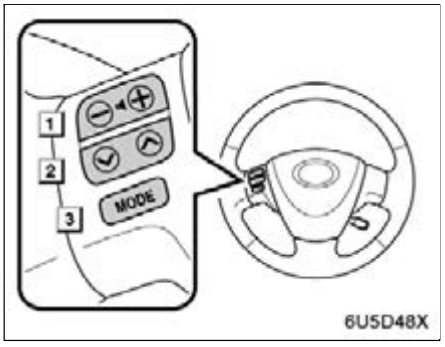
- There is a trouble inside the system. Eject the disc.
- The inside of the player unit may be too hot due to the very high ambient temperature. Eject the disc and allow the player to cool down.

If "NO MUSIC FILE" appears on the display: It indicates that the disc has no playable data.

If the malfunction is not rectified: Take your vehicle to your dealer.

If an MP3/WMA disc contains CD−DA files, only CD−DA files are played. If an MP3/WMA disc contains files other than CD−DA, only MP3/WMA files are played.

Audio remote controls — — Steering switches



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

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

1 **Volume control switch**

2 **"∧" "∨" switches**

3 **"MODE" switch**

1 Volume control switch

Push **"+"** side to increase the volume. The volume continues to increase while the switch is being pressed.

Push **"−"** side to decrease the volume. The volume continues to decrease while the switch is being pressed.

2 "∧" "∨" switches

Radio

To select a preset station:
Quickly push and release the **"∧"** or **"∨"** switch. Do this again to select the next preset station.

To seek a station:
Push and hold the **"∧"** or **"∨"** switch until you hear a beep. Do this again to find the next station. If you push either the **"∧"** or **"∨"** switch in seek mode, the seek mode will cancel.

CD player

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

To select a desired track or file:
Quickly push and release the **"∧"** or **"∨"** switch until the track or file you want to play is set. If you want to return to the beginning of the current track or file, push the **"∨"** switch once, quickly.

3 "MODE" switch

Each time you push the **"MODE"** switch, the system changes the audio mode.

To turn the audio system on, push the **"MODE"** switch.

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

Audio system operating hints

NOTICE

To ensure correct audio system operations:

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

Radio reception

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

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

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

FM

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

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

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

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

AM

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

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

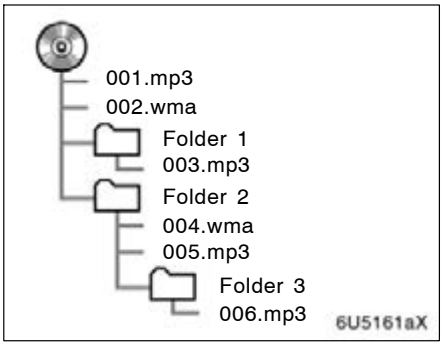
Static — AM is easily affected by external sources of electrical noise, such as high tension power lines, lightening, or electrical motors. This results in static.

MP3/WMA files

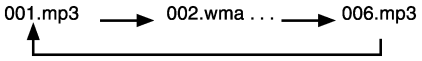
- MP3 (MPEG Audio Layer 3) and WMA (Windows Media Audio) are audio compression standards.
- The MP3/WMA player can play MP3 and WMA files on CD−ROM, CD−R and CD−RW discs.

  The unit can play disc recordings compatible with ISO 9660 level 1 and level 2 and with the Romeo and Joliet file system.
- When naming an MP3 or WMA file, add the appropriate file extension (.mp3 or .wma).
- The MP3/WMA player plays back files with .mp3 or .wma file extensions as MP3 or WMA files. To prevent noise and playback errors, use the appropriate file extensions.
- The player can play only the first session using multi−session compatible CDs.
- MP3 files are compatible with the ID3 Tag Ver. 1.0, Ver. 1.1, Ver. 2.2, and Ver. 2.3 formats. The unit cannot display disc title, track title and artist name in other formats.
- WMA files can contain a WMA tag that is used in the same way as an ID3 tag. WMA tags carry information such as track title, artist name.
- The emphasis function is available only when playing MP3/WMA files recorded at 32, 44.1 and 48 kHz. (The system can play MP3 files with sampling frequencies of 16, 22.05, and 24 kHz. However, the emphasis function is not available for files recorded at these frequencies.)
- The sound quality of MP3/WMA files generally improves with higher bit rates. In order to achieve a reasonable level of sound quality, discs recorded with a bit rate of at least 128 kbps are recommended.

  Playable bit rates
  MP3 files:
  MPEG1 LAYER3—64 to 320 kbps
  MPEG2 LSF LAYER3—64 to 160 kbps
  WMA files:
  Ver. 7, 8 CBR—48 to 192 kbps
  Ver. 9 CBR—48 to 320 kbps
- The MP3/WMA player does not play back MP3/WMA files from discs recorder using packet write data transfer (UDF format). Discs should be recorded using “pre−mastering” software rather than packet−write software.
- The m3u playlists are not compatible with the audio player.
- MP3i (MP3 interactive) and MP3PRO formats are not compatible with the audio player.
- The MP3 player is compatible with VBR (Variable Bit Rate).
- When playing back files recorded as VBR (Variable Bit Rate) files, the play time will not be correctly displayed if fast−forward or reverse operations are used.
- It is not possible to check folders that do not include MP3/WMA files.
- MP3/WMA files in folders up to 8 levels deep can be played. However, the start of playback may be delayed when using discs containing numerous levels of folders. For this reason, we recommend creating discs with no more than two levels of folders.
- It is possible to play up to 192 folders or 255 files on one disc.



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



CD−R AND CD−RW DISCS

- CD−R/CD−RW discs that have not been subject to the “finalizing process” (a process that allows discs to be played on a conventional CD player) cannot be played.
- It may not be possible to play CD−R/CD−RW discs recorded on a music CD recorder or a personal computer because of disc characteristics, scratches or dirt on the disc, or dirt, condensation, etc. on the lens of the unit.
- It may not be possible to play discs recorded on a personal computer depending on the application settings and the environment. Record with the correct format. (For details, contact the appropriate application manufacturers of the applications.)
- CD−R/CD−RW discs may be damaged by direct exposure to sunlight, high temperatures or other storage conditions. The unit may be unable to play some damaged discs.
- If you insert a CD−RW disc into the MP3/WMA player, playback will begin more slowly than with a conventional CD or CD−R disc.
- Recordings on CD−R/CD−RW cannot be played using the DDCD (Double Density CD) system.

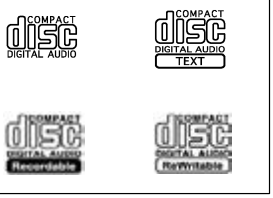
CARING FOR YOUR CD PLAYER AND DISCS

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

⚠ CAUTION

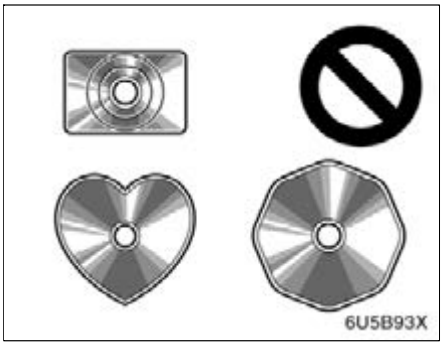
CD player uses an invisible laser beam which could cause hazardous radiation exposure if directed outside the unit. Be sure to operate the player correctly.

CD player

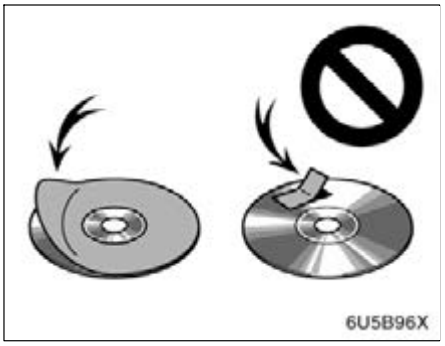
Audio CDs	

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

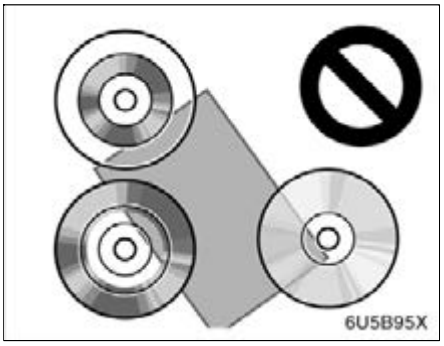
  SACDs
  dts−CDs
  Copy−protected CDs



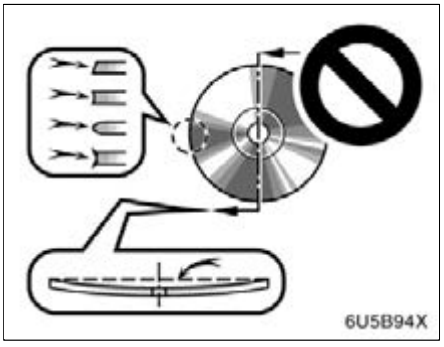
▶ Special shaped discs



▶ Labeled discs



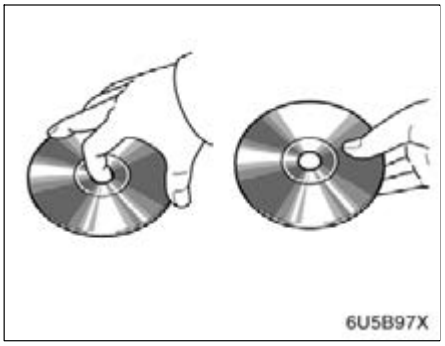
▶ Transparent/translucent discs



▶ Low quality discs

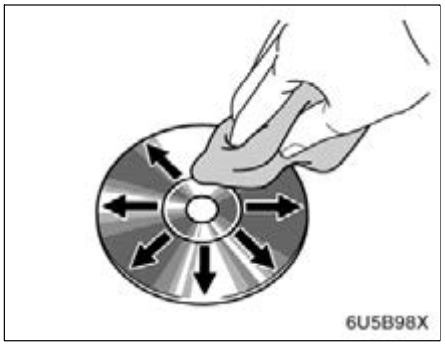
NOTICE

- ***Do not use special shaped, transparent/translucent, low quality or labeled discs such as those shown in the illustrations. The use of such discs may damage the player or changer, or it may be impossible to eject the disc.***
- ***This system is not designed for use of Dual Disc. Do not use Dual Disc because it may cause damage to the player.***
- ***If a disc cannot be ejected, do not forcibly take out the disc. Keep pushing the "⏏" button for approximately 5 seconds and release it. At this time, the audio disc and the map DVD−ROM will be ejected.***



▶ **Correct** ▶ **Wrong**

- Handle discs carefully, especially when you are inserting them. Hold them on the edge and do not bend them. Avoid getting fingerprints on them, particularly on the shiny side.
- Dirt, scratches, warping, pin holes, or other disc damage could cause the player to skip or to repeat a section of a track. (To see a pin hole, hold the disc up to the light.)
- Remove discs from the players when you are not using them. Store them in their plastic cases away from moisture, heat, and direct sunlight.



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

TERMS

Packet write—

This is a general term that describes the process of writing data on−demand to CD−R, etc., in the same way that data is written to floppy or hard discs.

ID3 Tag—

This is a method of embedding track−related information in an MP3 file. This embedded information can include the track title, the artist's name, the album title, the music genre, the year of production, comments and other data. The contents can be freely edited using software with ID3 tag editing functions. Although the tags are restricted to the number of characters, the information can be viewed when the track is played back.

WMA Tag—

WMA files can contain a WMA tag that is used in the same way as an ID3 tag. WMA tags carry information such as track title, artist name.

ISO 9660 format—

This is the international standard for the formatting of CD−ROM folders and files. For the ISO 9660 format, there are two levels of regulations.

Level 1:

The file name is in 8.3 format (8 character file names, with a 3 character file extension. File names must be composed of one−byte capital letters and numbers. The "_" symbol may also be included.)

Level 2:

The file name can have up to 31 characters (including the separation mark "." and file extension). Each folder must contain fewer than 8 hierarchies.

m3u—

Playlists created using "WINAMP" software have a playlist file extension (.m3u).

MP3—

MP3 is an audio compression standard determined by a working group (MPEG) of the ISO (International Standard Organization). MP3 compresses audio data to about 1/10 the size of that on conventional discs.

WMA—

WMA (Windows Media Audio) is an audio compression format developed by Microsoft. It compresses files into a size smaller than that of MP3 files. The decoding formats for WMA files are Ver. 7, 8, and 9.

SECTION 7

APPENDIX

Appendix

- Limitations of the navigation system 178
- Map database information and updates 180

Limitations of the navigation system

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

The Global Positioning System (GPS) developed and operated by the U.S. Department of Defense provides an accurate current vehicle position, normally using 4 or more satellites, and in some case 3 satellites. The GPS system has a certain level of inaccuracy. While the navigation system will compensate for this most of the time, occasional positioning errors of up to 300 feet (100 m) can and should be expected. Generally, position errors will be corrected within a few seconds.

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

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

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

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

NOTICE

The installation of window tinting may obstruct the GPS signals. Most window tinting contains some metallic content that will interfere with GPS signal reception of the antenna in the instrument panel. We advise against the use of window tinting on vehicles equipped with navigation systems.

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

- When driving on a small angled Y–shaped road.
- When driving on a winding road.
- When driving on a slippery road such as in sand, gravel, snow, etc.
- When driving on a long straight road.
- When motorway and surface streets run in parallel.
- After moving by ferry or vehicle carrier.
- When a long route is searched during high speed driving.
- When driving without setting the current position calibration correctly.
- After repeating a change of direction by going forward and backward, or turning on a turntable in the parking lot.
- When leaving a covered parking lot or parking garage.
- When a roof carrier is installed.
- When driving with tire chains installed.
- When the tires are worn.
- After replacing a tire or tires.
- When using tires that are smaller or larger than the factory specifications.
- When the tire pressure in any of the four tires is not correct.

INFORMATION

If your vehicle cannot receive GPS signals, you can correct the current position manually. For information on setting the current position calibration, see page 118.

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

- When turning at an intersection off the designated route guidance.
- If you set more than one destination but skip any of them, auto reroute will display a route returning to the destination on the previous route.
- When turning at an intersection for which there is no route guidance.
- When passing through an intersection for which there is no route guidance.
- During auto reroute, the route guidance may not be available for the next turn to the right or left.
- It may take a long time to operate auto reroute during high speed driving. In auto reroute, a detour route may be shown.
- After auto reroute, the route may not be changed.
- An unnecessary U–turn may be shown or announced.
- A location may have multiple names and the system will announce one or more.
- Some routes may not be searched.
- If the route to your destination includes gravel, unpaved roads or alleys, the route guidance may not be shown.
- Your destination point might be shown on the opposite side of the street.
- When a portion of the route has regulations prohibiting the entry of the vehicle that vary by time or season or other reasons.
- The road and map data stored in your navigation system may not be complete or may not be the latest version.

After replacing a tire, implement the operation described in the "TIRE CHANGE CALIBRATION". (See page 120.)

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

Map database information and updates —

This system uses the maps of DENSO.

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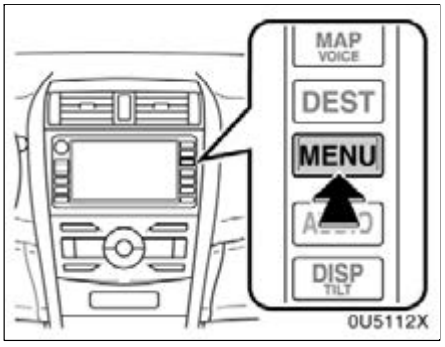
There are two types of areas available for route guidance. In one type of area, primarily around metropolitan centers, detailed route guidance is available for the entire area. In the other type of area, all roads are displayed on the map but route guidance is limited. The navigation route might lack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

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

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

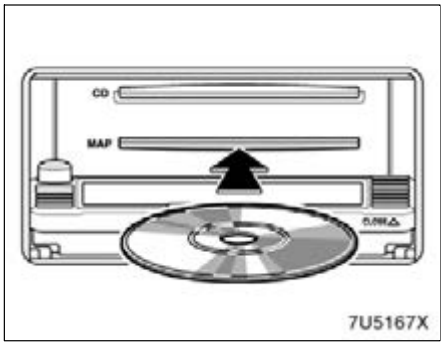
— Changing the map DVD−ROM



1. Push the “MENU” button.

2. Touch “Map DVD”.

3. Touch “⏏ DVD”.



4. Insert the new map DVD−ROM with the label side up.
5. Push the “CLOSE▲” button to close the display.

⚠ CAUTION

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

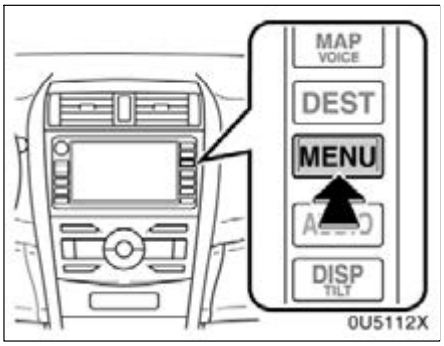
NOTICE

- ***Do not obstruct the display while it is moving. It could damage your navigation system.***
- ***If a disc cannot be ejected, do not forcibly take out the disc. Keep pushing the "⏏" button for approximately 5 seconds and release it. At this time, the audio disc and the map DVD−ROM will be ejected.***

INFORMATION

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

- **To confirm the database version and disc coverage area**



1. Push the "MENU" button.

2. Touch "Map DVD".

Make sure the version of the database on this screen.

To display the disc coverage area, touch **"Covered Area"**. Confirm the covered area on the screen.

Contact your Toyota dealer to find out if there is a more recent update released.

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