- **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 "Navigation" on the "Menu" screen.

3. Touch "My Places" on the "Navigation" screen.

4. Touch "Delete".

5. Touch the touch screen button to be deleted.

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

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

— Deleting previous points

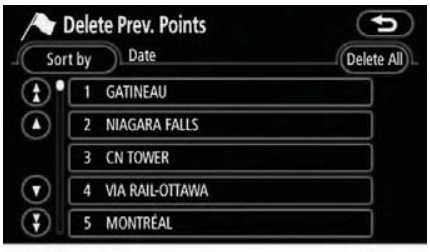
The previous destination can be deleted.

1. Push the "MENU" button.

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

3. Touch "My Places" on the "Navigation" screen.

4. Touch "Delete Previous Points".



5. Touch the touch screen button to be deleted.

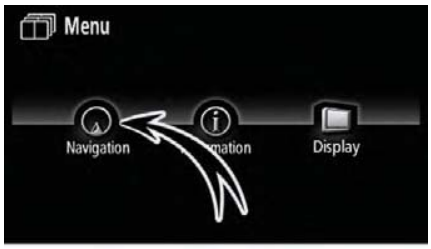
"Delete All": To delete all previous points in the system.

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

Setup

Setting the items shown on the "Setup" screen can be done.

1. Push the "MENU" button.



2. Touch "Navigation".

3. Touch "Setup".

4. Touch the items to be set.

5. Touch "OK" on the screen.

The previous screen will be displayed.

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

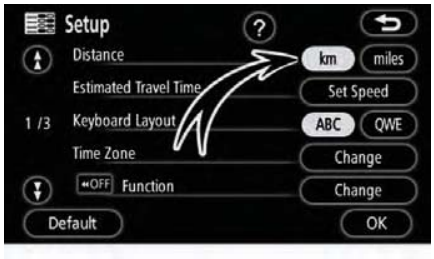
- **Distance unit**

Distance unit can be changed.

1. Push the "MENU" button.

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

3. Touch "Setup" on the "Navigation" screen.



4. Touch "km" or "miles" of "Distance" to choose the distance unit.

The selected button is highlighted.

5. Touch "OK".

INFORMATION
This function is available only in English. To switch language, see "Selecting a language" on page 172.

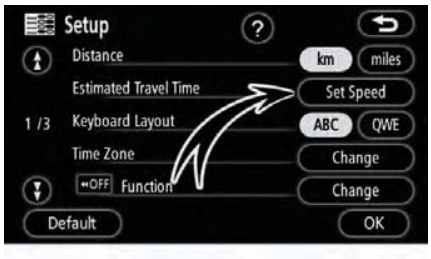
- **Estimated travel time**

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 "Navigation" on the "Menu" screen.

3. Touch "Setup" on the "Navigation" screen.



4. Touch "Set Speed" of the "Estimated Travel Time".

5. Touch ◄ or ► to set the average vehicle speeds for "Residential", "Main Street", and "Freeway".

To set the default speeds, touch **"Default"**.

6. 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 conditions such as traffic jams and, construction work.***
- ***It is possible to display up to 99 hours 59 minutes.***

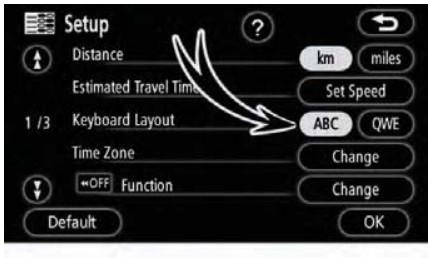
- **Input keyboard layout**

Keyboard layout can be changed.

1. Push the “MENU” button.

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

3. Touch “Setup” on the “Navigation” screen.



4. Touch “ABC” or “QWE” of “Keyboard Layout” to choose the keyboard layout.

LAYOUT TYPE

► “ABC” type

► “QWE” type

The selected button is highlighted.

5. Touch “OK”.

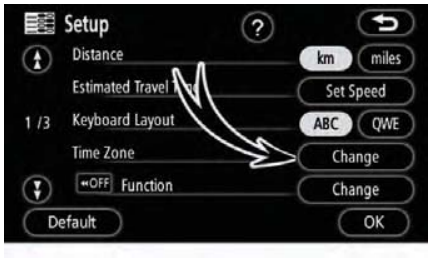
- **Time zone**

Time zone can be changed.

1. Push the "MENU" button.

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

3. Touch "Setup" on the "Navigation" screen.



4. Touch "Change" of "Time Zone".

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

5. 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"**.

6. Touch "OK".

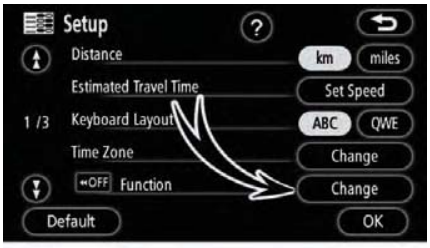
- **Screen layout function (OFF Function)**

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

1. Push the "MENU" button.

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

3. Touch "Setup" on the "Navigation" screen.



4. Touch "Change" of "OFF Function".

5. Touch the touch screen button to be turned off. The button becomes dimmed.

To set the default, touch **"Default"**.

6. Touch "OK".

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

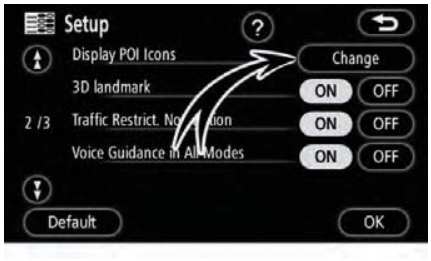
Select from among the 6 icons displayed on the “Display POI Icons” top screen, so that setting of the icons to be displayed on the map screen can be done easily.

1. Push the “MENU” button.

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

3. Touch “Setup” on the “Navigation” screen.

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



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

5. Touch the category button to be changed.

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

7. Touch “OK”.

- **3D landmark**

When the “3D landmark” feature is turned on, the system will display the 3D landmark on the map.

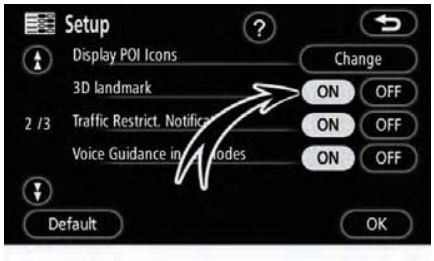
To turn the “3D landmark” mode on:

1. Push the “MENU” button.

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

3. Touch “Setup” on the “Navigation” screen.

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



4. Touch “ON” of “3D landmark”.

The selected button is highlighted.

5. Touch “OK”.

- **Notifying traffic restriction**

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

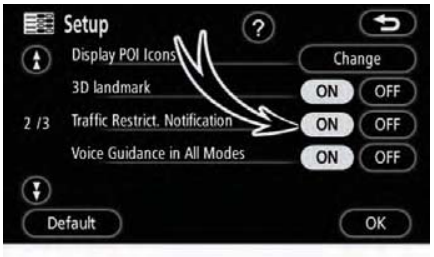
To turn the “Traffic Restrict. Notification” on:

1. Push the “MENU” button.

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

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

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



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

The selected button is highlighted.

5. 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, the voice guidance cannot be heard when using the audio system.

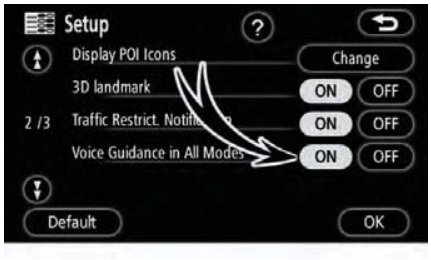
To turn the “Voice Guidance in All Modes” on:

1. Push the “MENU” button.

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

3. Touch “Setup” on the “Navigation” screen.

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



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

The selected button is highlighted.

5. 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.

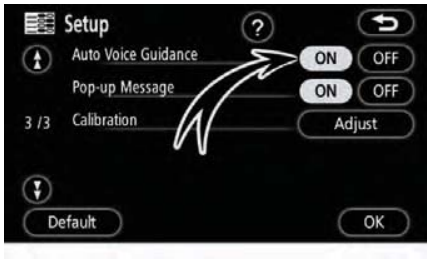
To turn the “Auto Voice Guidance” mode on:

1. Push the “MENU” button.

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

3. Touch “Setup” on the “Navigation” screen.

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



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

The selected button is highlighted.

5. Touch “OK”.

- **Pop-up message**

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

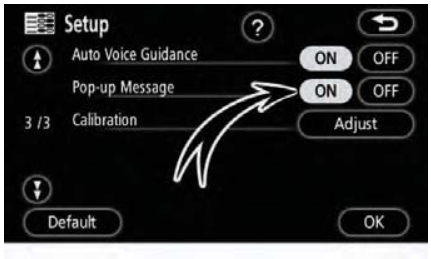
To turn the “Pop-up Message” on:

1. Push the “MENU” button.

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

3. Touch “Setup” on the “Navigation” screen.

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

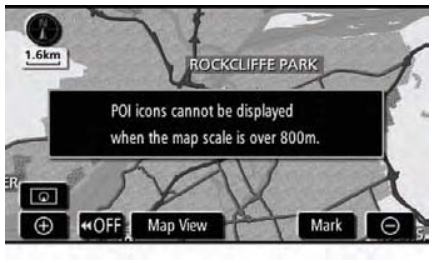


4. Touch “ON” of “Pop-up Message”.

The selected button is highlighted.

5. Touch “OK”.

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



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

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.

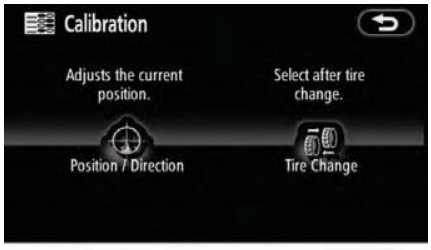
1. Push the "MENU" button.

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

3. Touch "Setup" on the "Navigation" screen.

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

4. Touch "Adjust" of "Calibration".

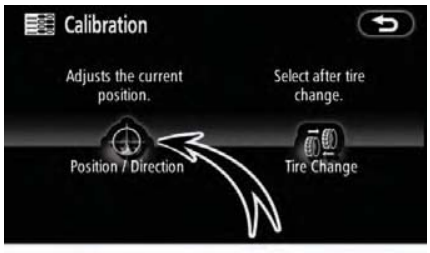


5. Touch the desired touch screen button.

INFORMATION
For additional information on the accuracy of a current vehicle position, see "Limitations of the navigation system" on page 248.

POSITION/DIRECTION CALIBRATION

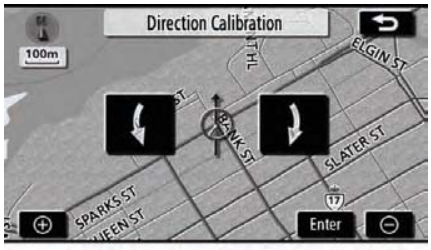
When driving, the current vehicle position mark will be automatically corrected by GPS signals. If GPS reception is poor due to location, you can manually adjust the current vehicle position mark.



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".



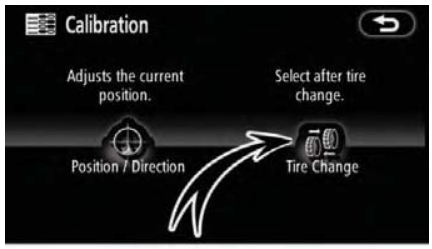
4. Touch either the ◀ or ▶ to adjust the direction of the current vehicle position mark.

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.

SECTION **5**

OTHER FUNCTIONS

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  - Maintenance information setting ····114
  - Dealer setting ····116
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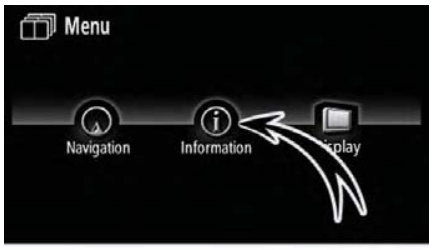
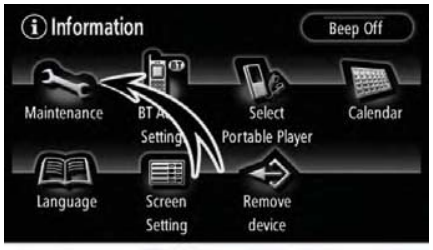
Maintenance information — —Maintenance information setting

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

1. Push the “MENU” button.



2. Touch “Information”.



3. Touch “Maintenance”.

4. Touch the desired touch screen button.

For details of each touch screen button, see “INFORMATION ITEMS” on page 115.

“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 116.)

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

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

When the vehicle needs to be serviced, the touch screen button 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

5. 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.

6. Touch "OK".

The screen then returns to the "Maintenance" screen.

INFORMATION
● ***For scheduled maintenance information, please refer to the "Schedule 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 "MENU" button.

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

3. Touch "Maintenance" on the "Information" screen.

4. Touch "Set Dealer" on the "Maintenance" screen.

5. If the dealer has not been registered, enter the location of the dealer in the same way as for a destination search. (See "Destination search" on page 42.)

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

6. Touch the touch screen button to be edited.

"Dealer": To enter the name of a dealer. (See page 117.)

"Contact": To enter the name of a dealer member. (See page 117.)

"Location": To set a location. (See page 117.)

"Phone #": To set a telephone number. (See page 118.)

"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 61.)

- **To edit “Dealer” or “Contact”**

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

2. Enter the name using the alpha-numeric 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 #”**

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

2. Enter the number using numeral keys.

3. Touch “OK”.

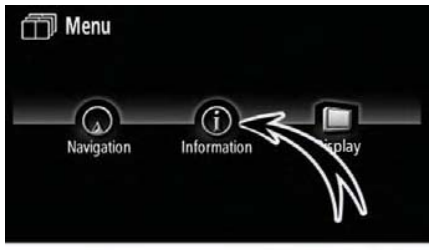
The previous screen will be displayed.

Calendar with memo —

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

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

1. Push the “MENU” button.



2. Touch “Information”.

3. 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 121.)

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 121.)

"Add Memo": To add a memo. (See " — Adding a memo" on page 120.)

"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

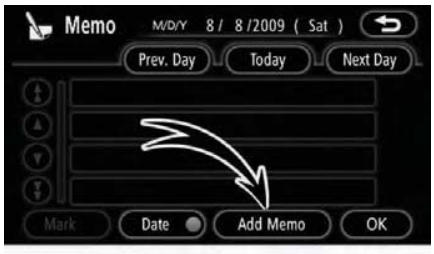
If a memo is added, the system informs of the memo entry when the system is started on the memo date. (See page 23.)

1. Push the "MENU" button.

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

3. Touch "Calendar" on the "Information" screen.

4. Touch the date you want to add a memo on the "Calendar" screen.



5. Touch "Add Memo".

Up to 100 memos can be added.

6. Touch "Memo".

7. 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.

8. 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 42.)

— Editing a memo

The registered memo can be edited.

1. Push the "MENU" button.

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

3. Touch "Calendar" on the "Information" screen.

4. Touch the day you want to edit a memo on the "Calendar" screen.

5. Touch the memo to be edited.

6. Touch the item to be edited.

"Memo": To edit a memo. (See " — Adding a memo" on page 120.)

"Location": To change a registered location. (See " — Adding a memo" on page 120.)

"Enter ⊙": To set the registered location as a destination. (See "Starting route guidance" on page 61.)

"Delete": To delete the memo.

— Memo list

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

1. Push the "MENU" button.

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

3. Touch "Calendar" on the "Information" screen.

4. Touch "List" on the "Calendar" screen.

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

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

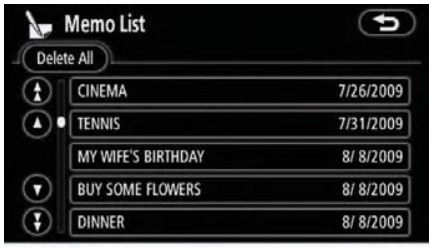
"This Month": To display the list of memos for the current month.

"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 122.)



6. 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.

7. 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, 2009 through December 31, 2028 can be set for searching.

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

The "Memo List" screen will be displayed.

Hands−free system (for cellular phone) —

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

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

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

⚠CAUTION

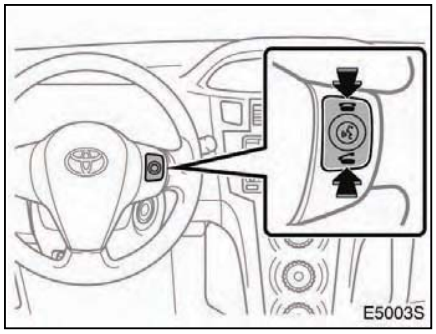
Use a cellular phone or connect the Bluetooth® phone only when safe and legal to do so.

NOTICE

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

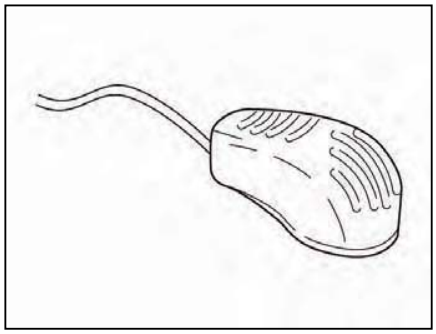
INFORMATION

- ***In the following conditions, the system may not function.***
  - ***The cellular phone is turned off.***
  - ***The current position is outside the communication area.***
  - ***The cellular phone is not connected.***
  - ***The cellular phone has a low battery.***
- ***If Bluetooth® devices are used for hands-free phone and Bluetooth® audio connections at the same time, the following may occur.***
  - ***The Bluetooth® connection may be cut off.***
  - ***Noise may occur in the audio played from the portable player.***
- ***Even if using a cellular phone that is capable of both hands-free phone and Bluetooth® audio connections, simultaneous connection may not be possible in some cases.***



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

Depending on the model or grade, steering wheel switches may not be available.



► **Microphone**

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

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

INFORMATION

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

1 Indicates the condition of the Bluetooth® connection.

"Blue" indicates an excellent connection to Bluetooth®.

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

: No connection to Bluetooth®.

2 Indicates the amount of battery charge left.

Empty ⟷ **Full**

It is not displayed while the Bluetooth® is not connected.

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

3 Indicates the receiving area.

"Rm" is displayed when receiving in Roaming area.

"Ho" is displayed when receiving in Home area.

4 Indicates the level of reception.

Too bad ⟷ **Excellent**

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

INFORMATION

This system supports the following service.

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

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

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

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

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

Bluetooth is a trademark owned by Bluetooth SIG, Inc.

When you release your car:

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

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

You can initialize the following data in the system.

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

FCC ID: XEMNA08A01
IC ID: 8192A-NA08A01
MADE IN JAPAN

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

⚠CAUTION

FCC Warning:

Changes or modifications not expressly approved by AISIN AW Co., Ltd for compliance could void the user’s authority to operate the equipment.

NOTE: 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.

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

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

— Enter a Bluetooth® phone

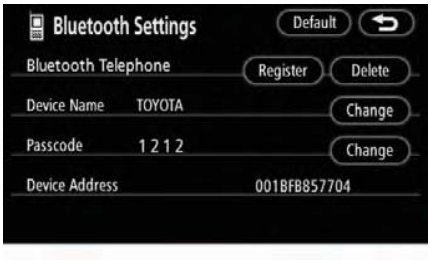
To use the hands-free system, you need to enter your phone into the system. Once you have registered it, you can make a hands-free call.

1. Push the "TEL" button to display the "Telephone" screen.

You can also push of the steering wheel to display this screen.

2. Touch "Settings" to display "Settings" screen.

3. Touch "Bluetooth*" to display the "Bluetooth* Settings" screen.



4. Touch "Register" to connect your cellular phone to the system.

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

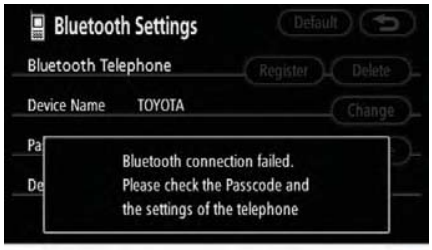
5. When this screen is displayed, input the passcode displayed on the screen into the phone.

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

If you want to cancel it, touch **"Cancel"**.

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

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



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

- **Connecting a Bluetooth® phone AUTOMATICALLY**

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

Each time you touch **"Auto Connect"**, auto connection will be switched on or off.

Vehicles with smart entry and start system—

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

This screen appears when the Bluetooth® phone is first connected after the "ENGINE START STOP" switch is turned to the ACCESSORY or IGNITION ON mode.

Vehicles without smart entry and start system—

When the engine switch is in ACC or ON position, the selected Bluetooth® phone will be automatically connected and the connection result is displayed.

This screen appears when the Bluetooth® phone is first connected after the engine switch is in ACC or ON position.

MANUALLY

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

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

When the connection is completed, this screen is displayed.

Now you can use the Bluetooth® phone.

- **Reconnecting the Bluetooth® phone**

Vehicles with smart entry and start system—

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

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

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

Vehicles without smart entry and start system—

If the Bluetooth® phone is disconnected with a poor reception from the Bluetooth® network when the engine switch is in ACC or ON position, the system automatically reconnects the Bluetooth® phone. In this case, the connection result is not displayed.

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

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

— Call on the Bluetooth® phone

After you enter the Bluetooth® phone, you can call by using hands-free system. You can call using the 6 methods described below.

- **By dial**

You can call by inputting the telephone number.

This cannot be operated while driving.

Touch the desired key to input the telephone number.

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

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

Touch or push of the steering wheel.

- **By phone book**

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

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

This cannot be operated while driving.

1. Touch "Phone Book" to display "Phone Book" screen.

2. Select the desired number from the list.

Touch or push of the steering wheel.

- **By dialed numbers**

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

This cannot be operated while driving.

1. Touch "Call Log" to display "Outgoing Calls" screen.

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

2. Select the desired number from the list.

Touch or push of the steering wheel.

- **By received calls**

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

This cannot be operated while driving.

1. Touch "Call Log" to display the "Outgoing Calls" screen.

2. Touch "Incoming Calls" to display the "Incoming Calls" screen.

- When a telephone number registered in the phone book is received, the name and the number are displayed.
- Received calls which you did not answer are also memorized in the system and "**Abs.**" is displayed on the left side of the number.
- Received calls which you refused are also memorized in the system and "⃠" is displayed on the left side of the number.
- Unnoticed telephone number such as a public telephone is not memorized in the system.

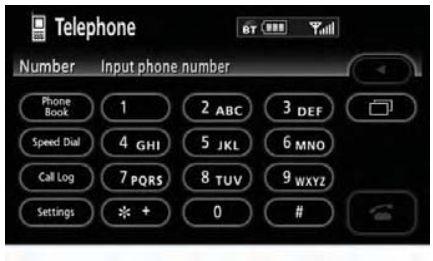
3. Select the desired number from the list.

Touch or push of the steering wheel.

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

- **By speed dial**

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



1. Touch "Speed Dial" to display "Speed Dial" screen.

2. Touch the desired number to call.

You can change the page by touching "Speed Dial 2" or "Speed Dial 3".

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

- **By POI call**

You can call by touching when it is displayed on the screen from navigation system. (See page 31 for details.)

— Receive on the Bluetooth® phone

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

To hang up the phone:

Touch or push of the steering wheel again.

To refuse to receive the call:

Touch and hold it.

To adjust the volume of received call:

Touch **"–"** or **"+"** or use the volume switch of the steering wheel.

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

— Talk on the Bluetooth® phone

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

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

Touch **"–"** or **"+"** or use the volume switch of the steering wheel.

To hang up the phone:

Touch or push of the steering wheel.

To mute your voice:

Touch **"Mute"**.

To input a Key:

Touch **"0-9"**.

To transfer the call:

Touch **"Transfer Call"**.

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

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

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

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

Touch the desired number to input the key.

To hang up the phone:

Touch or push of the steering wheel.

This cannot be operated while driving.

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

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

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

To hang up the phone:

Touch or push of the steering wheel.

The continuous tone signal is the marked sign (p or w) and the number following telephone number.
(ex. 056133w0123p#1∗)

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

- **Sending a tone by the speed tone**

You can send a tone by the speed tone. (For registering the speed tone, see "(b) Registering the speed tone" on page 140.)

1. Touch "Speed Tone".

2. Touch the desired touch screen button to send a tone.

— Change the settings of the Bluetooth® phone

Touch "Settings" to display "Settings" screen.

You can change the settings of the phone.

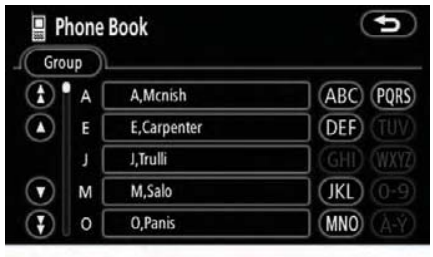
(a) Registering the speed dial

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

The 6th entry is the speed dial for redialing.

1. Touch "Speed Dial" to display the "Speed Dial Settings" screen.

2. Touch "Register" of "Speed Dial".



3. Select the data you want to register.

4. Touch the desired telephone number.

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

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

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

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

- **Deleting the speed dial individually**

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

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

1. Touch "Delete" of "Speed Dial".

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

3. Touch "Yes".

- **Deleting all of the speed dial**

1. Touch "Delete All" of "Speed Dial".

2. Touch "Yes".

(b) Registering the speed tone

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

1. Touch "Register" of "Speed Tone".

2. Use the software keyboard to input the name.

3. Input the number and touch "OK".

4. Touch the desired touch screen button you want to register in.

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

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

- **Editing the speed tone**

You can edit the speed tone.

1. Touch "Edit" of "Speed Tone".

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

3. Use the software keyboard to input the name.

4. Input the number and touch "OK".

- **Deleting the speed tone individually**

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

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

1. Touch "Delete" of "Speed Tone".

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

3. Touch "Yes".

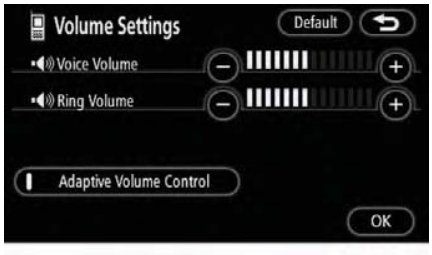
- **Deleting all the speed tone**

1. Touch "Delete All" of "Speed Tone".

2. Touch "Yes".

(c) Setting the volume

1. Touch "Volume" to display the "Volume Settings" screen.



2. Touch "-" or "+" to adjust the "Voice Volume" or "Ring Volume".

"Voice Volume" .....Adjusting the other party's voice.

"Ring Volume".....Adjusting the ring volume.

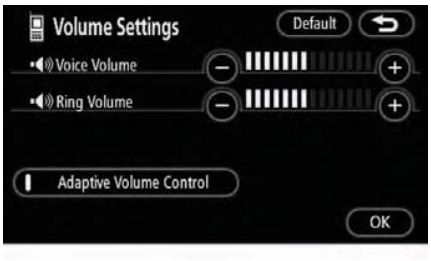
- **Automatic volume settings for high speed**

You can set the volume one step up when the speed is over 80 km/h (50 mph). (When it is under 70 km/h (43 mph), previous volume is back.)

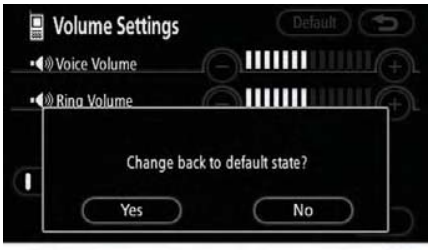
Each time you touch **"Adaptive Volume Control"**, you can switch on or off.

- **Initializing the settings**

You can initialize the settings.



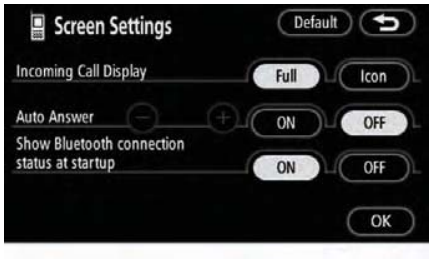
Touch "Default".



Touch "Yes".

(d) Setting the screen

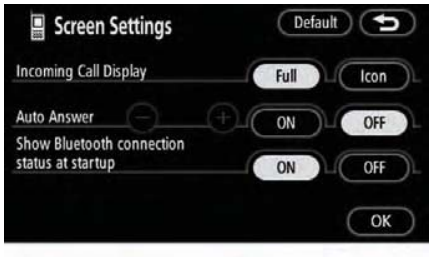
1. Touch "Screen" to display the "Screen Settings" screen.



2. Do the detail settings of the screen and touch "OK".

- **Receiving call display**

You can select the method of the receiving call display.



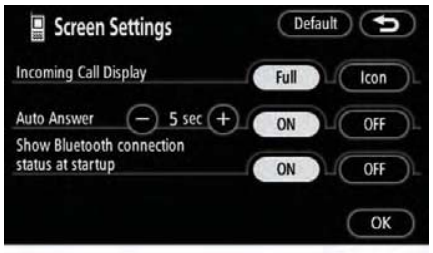
Touch "Full" or "Icon".

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

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

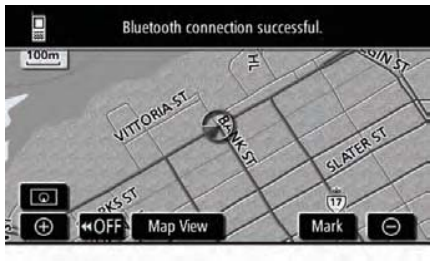
- **Auto answer**

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



Touch "ON" of "Auto Answer" and "-" or "+" to adjust the waiting time of auto answer within 1 - 60 seconds.

- **The Bluetooth® connection status at startup**

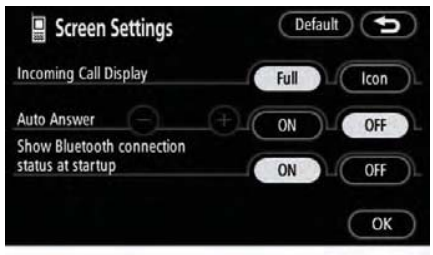


Vehicles with smart entry and start system—

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

Vehicles without smart entry and start system—

When the engine switch is in ACC or ON position and the Bluetooth® is automatically connected, the connection check is displayed.

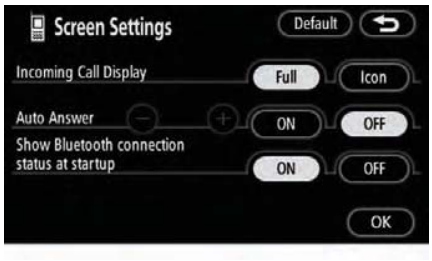


Touch "ON" or "OFF" of "Show Bluetooth* connection status at startup".

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

- **Initializing the settings**

You can initialize the settings.



Touch “Default”.

Touch “Yes”.

(e) Setting the phone book

You can register phone numbers in the phone book.

Touch “Phone Book” to display the “Phone Book Management” screen.

You can do the detail settings of phone book.

- **Transferring a telephone number**

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

Transfer it while the engine is running.

1. Touch "Transfer Data" to display "Select Group" screen.

2. Select the group you want to transfer to.

3. Touch "Overwrite" or "Add To".

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

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

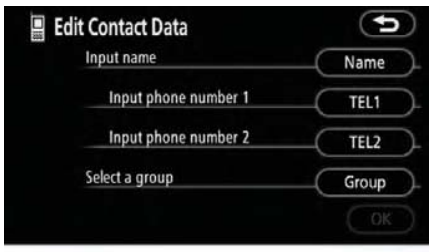
5. When this screen is displayed, the transfer is completed.

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

- **Registering the phone book data**

You can register the phone book data.

1. Touch "Register" of "Phone Book".

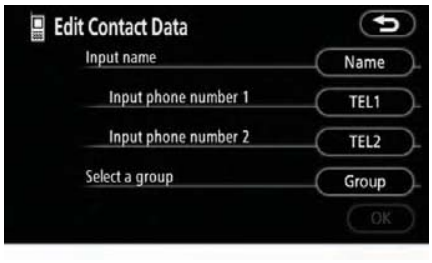


2. Touch the desired touch screen button to edit the phone book.

3. When you complete the edit, touch "OK".

- **Editing the name**

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

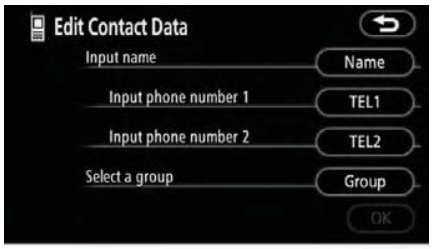


1. Touch "Name".

2. Use the software keyboard to input the name.

- **Editing the phone number**

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



1. **Touch "TEL1" or "TEL2".**

2. **Input the number and touch "OK".**

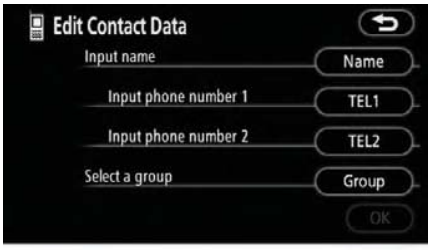
3. **Select the desired icon.**

- **Selecting the group**

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

You can select "No group" or "Group 01" to "Group 19".

"No group" is displayed if you don't set the group.



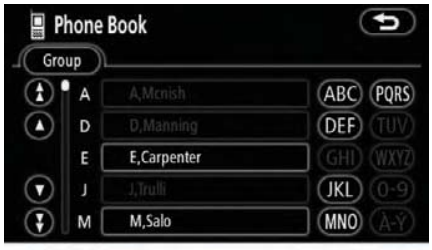
1. **Touch "Group".**

2. **Select the desired group.**

- **Adding the data to the phone book**

You can add data to the phone book.

1. Touch “Add to”.



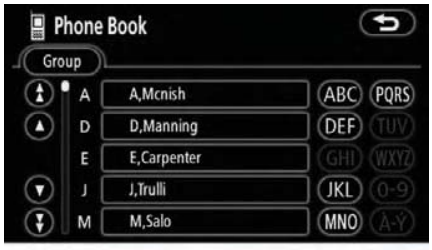
2. Select the data you want to add log data to.

3. Confirm the added data on the screen and touch “OK”.

- **Editing the data**

You can edit the registered data.

1. Touch “Edit”.



2. Select the data you want to edit.

3. Touch the desired touch screen button.

When you edit the data, touch **"OK"**.

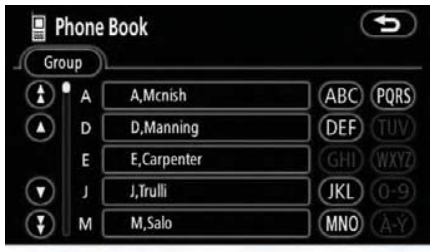
When you also touch "Edit" on this screen, you can edit it.

- **Deleting the data**

You can delete the data.

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

1. Touch "Delete" of "Phone Book".



2. Touch the desired touch screen button.

3. Touch "Yes".

You can also delete it in the following way.

1. Touch “Phone Book”.

2. Select the desired data.

3. Touch “Delete”.

4. Touch “Yes”.

- **Deleting all the phone data**

1. Touch "Delete All" of "Phone Book".

2. Select the deleting method.

"Group Data"

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

"All Contact Data"

..... Deleting all the phone data.

3. When you select "Group Data", the "Select Group" screen is displayed.

4. Select the desired group.

5. Touch "Yes".

You can also delete it in the following way.

1. Touch "Phone Book".

2. Touch "Delete All".

3. Touch "Yes".

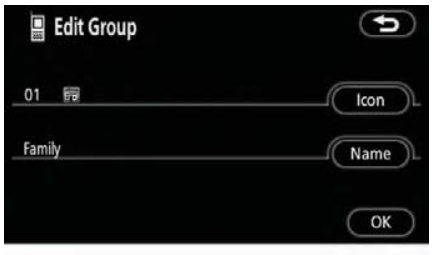
- **Registering a group name**

You can register 20 groups. "No group", "Group 01" - "Group 19" is registered by default.

You can change **"Group 01" - "Group 19"** into desired names.

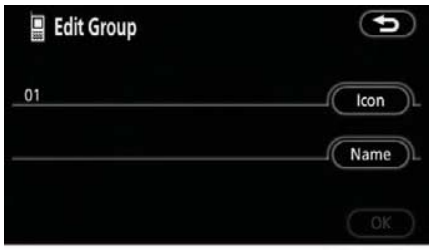
1. Touch "Register" of "Group Name".

2. Select the group you want to register.



3. When you complete all the edit, touch "OK".

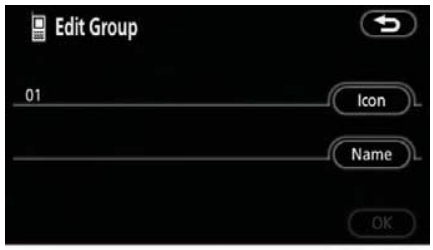
- **Selecting a group icon**



1. Touch “Icon”.

2. Select the desired icon.

- **Editing a group name**



1. Touch “Name”.

2. Use the software keyboard to input the name.

- **Deleting a group name**

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

1. Touch "Delete" of "Group Name".

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

3. Touch "Yes".

- **Deleting all the group name**

1. Touch "Delete All" of "Group Name".

2. Touch "Yes".

- **Deleting the log data**

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

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

INDIVIDUALLY

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

2. Touch “Yes”.

ALL AT ONCE

1. Touch “Delete All” on the “Outgoing Calls” or “Incoming Calls” screen.

2. Touch “Yes”.

(f) Setting the security

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

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

- **Changing the security code**

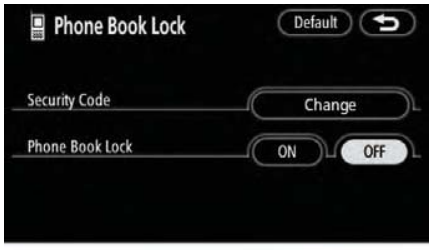
The security code is 4 digits and the default is "0000".

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

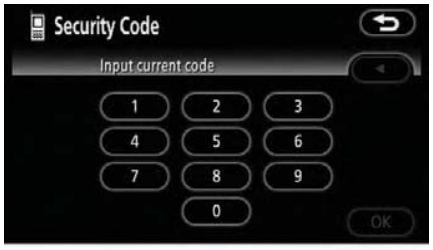
When you change the security code, don't forget the code. The dealers cannot unlock the security when you forget it.

If you forget the security code, initialize your personal data. When you initialize it, not only the phone book data but also the memory points in the navigation system, etc. will be deleted. (See "● Initializing the security code" on page 161.)

1. Touch "Phone Book Lock".



2. Touch "Change".



3. Input the current code.

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

4. Input a new code.

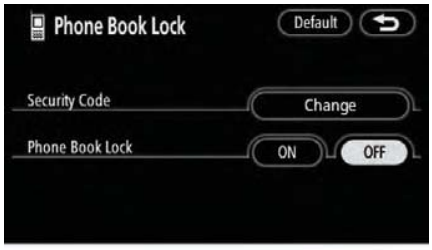
5. Touch “Yes”.

- **Phone book Lock**

When you set the phone book lock, you can have the following functions locked.

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

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

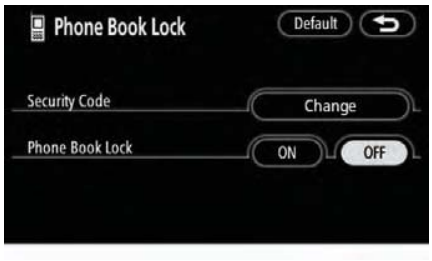


1. Touch “ON”.

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

- **Initializing the security code**

You can initialize the settings.



1. Touch “Default”.

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

3. Touch “Yes”.

— Set a Bluetooth® phone

- **Selecting a Bluetooth® phone**

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

1. Touch "Settings" to display "Settings" screen.

2. Touch "Select Telephone" to display "Select Telephone" screen.

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

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

Bluetooth® mark is displayed when you choose the phone.

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

3. Touch "OK".

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

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

Touch “Yes” or “No”.

- **Displaying Bluetooth® information**

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

“Device Name”

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

“Bluetooth* Device Address”

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

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

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

2. When you complete confirming it, touch .

- **Changing a device name**

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

1. Touch "Change".

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

- **Changing the Bluetooth® settings**

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

The information displays the following items.

"Device Name"

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

"Passcode"

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

"Device Address"

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

When you change the device name or passcode, do the followings.

1. Touch "Bluetooth*".

2. Touch "Change" of "Device Name" or "Passcode".

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

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

You can input up to 20 characters.

4. Input a passcode with 4 - 8 digits.

When you touch ◄, the input number is deleted.

- **Initializing the Bluetooth® settings**

You can initialize the settings.

1. Touch “Default”.

2. Touch “Yes”.

- **Deleting a Bluetooth® phone**

1. Touch "Delete" of "Bluetooth* Telephone".

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

3. Touch "Yes".

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

- **Displaying the information of the Bluetooth® phone you delete**

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

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

2. When you complete confirming it, touch **.**

Screen adjustment

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

Push the "MENU" button to display the "Menu" screen and touch "Display".

Brightness adjustment

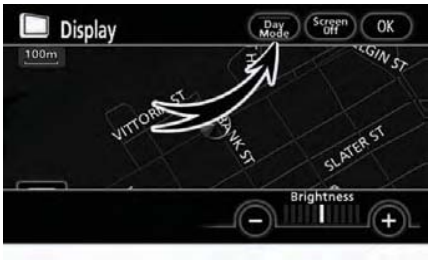
"Brightness" "+": Brightens the screen.

"Brightness" "–": Darkens the screen.

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 **"MENU"**, etc. The selected screen appears.

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



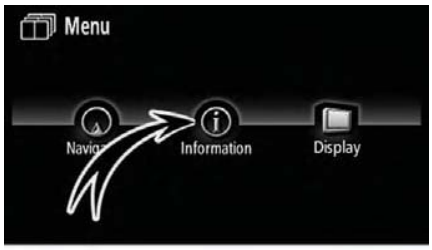
Depending on the position of the headlight switch, the screen changes to the day mode or night mode.

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

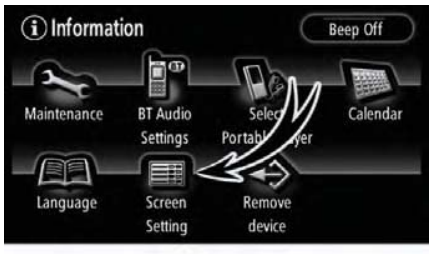
If the screen is set in the day mode with the headlight switch turned to on, this condition is memorized in the system even with the engine turned off.

Screen setting

1. Push the "MENU" button.



2. Touch "Information".



3. Touch "Screen Setting".

(a) Automatic transition

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

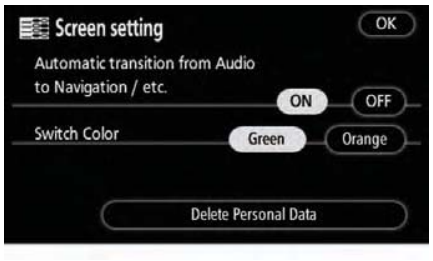
Select "ON" or "OFF" and then touch "OK".

"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

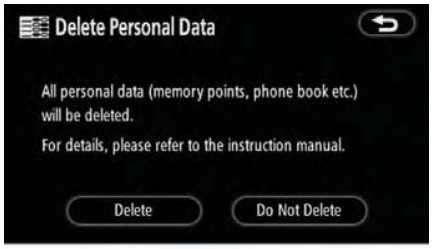
The following personal data can be deleted or returned to their default settings:

- **Maintenance conditions**
- **Maintenance information "off" setting**
- **Memory points**
- **Areas to avoid**
- **Previous points**
- **Route trace**
- **User selection settings**
- **Phone book data**
- **Dialed numbers and received calls**
- **Speed dial**
- **Bluetooth® phone data**
- **Security code**

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

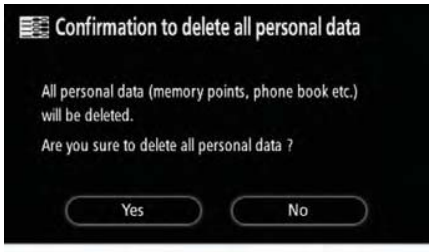
1. Touch “Delete Personal Data”.

The “Delete Personal Data” screen appears.



2. Touch “Delete”.

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

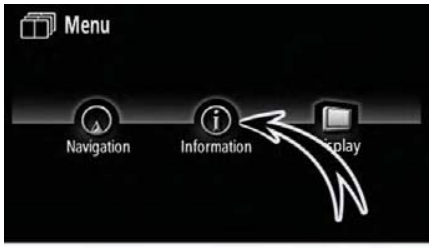


3. Touch “Yes”.

Beep setting

You can set a beep sound off.

1. Push the “MENU” button.



2. Touch “Information”.

3. Touch “Beep Off”.

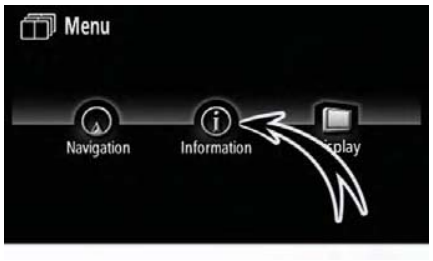
“Beep Off” is highlighted.

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

Select language

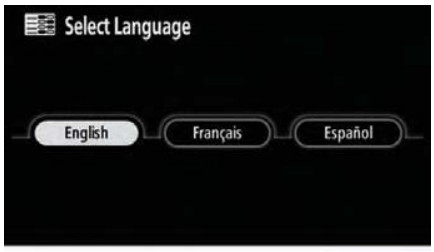
The language of the touch screen buttons, pop−up messages and the voice guidance can be changed.

1. Push the "MENU" button.



2. Touch "Information".

3. Touch "Language".



4. Touch "English", "Français" or "Español" to select a language.

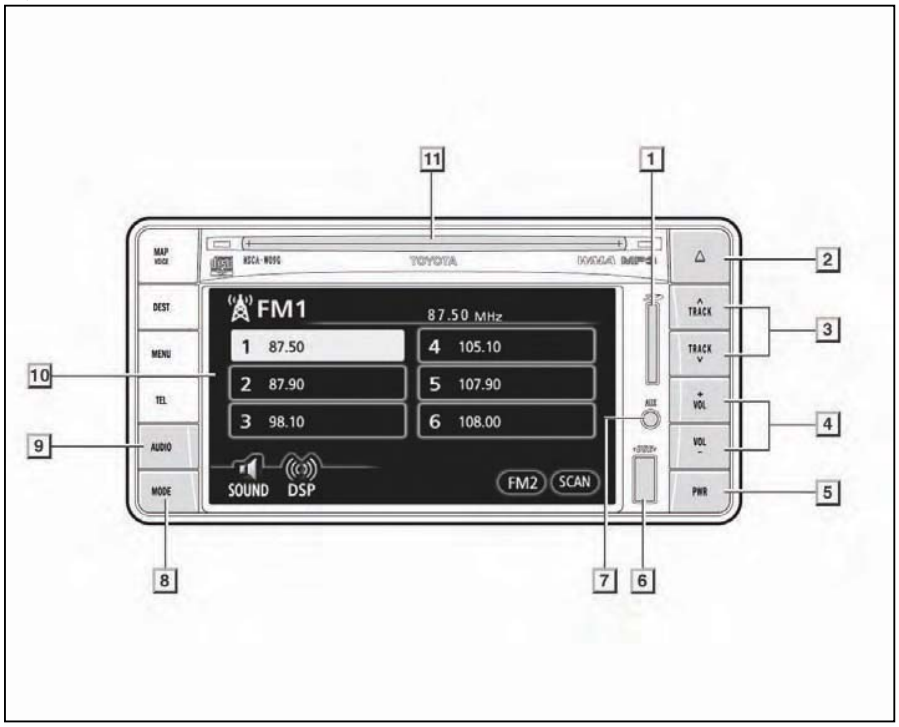
If a screen other than for the navigation system is displayed, the current screen would change to the "CAUTION" screen by pushing the **"MAP/VOICE", "DEST"** or **"MENU"** button.

SECTION 6

AUDIO SYSTEM

- Quick reference ····174
- **Using your audio system** ····175
  - Some basics ····175
  - Radio operation ····182
  - CD player operation ····194
  - SD/USB player operation ····204
  - Bluetooth® audio operation ····213
  - AUX operation ····227
- Audio remote controls ····237
- Audio system operating hints ····238

Quick reference



1 **SD memory card slot**
Insert an SD memory card for the SD player into this slot. For details, see page 204.

2 **"⏏" button**
Push this button to eject a disc. For details, see page 195.

3 **"∧TRACK" or "TRACK∨" button**
Push the **"∧TRACK"** or the **"TRACK∨"** button to move up or down the frequency, track or file.
Push and hold the **"∧TRACK"** or the **"TRACK∨"** button to seek up or down for a station.
For details, see pages 183, 196, 200, 209, 220 and 233.

4 **"+ VOL" or "VOL –" button**
Push **"+ VOL"** or **"VOL –"** button to adjust the volume. For details, see page 177.

5 **"PWR" button**
Push this button to turn the audio system on and off. For details, see page 177.

6 **USB port**
Plug a USB memory device for the USB player into this port. For details, see page 206.

7 **AUX port**
Plug a portable audio device into this port to play in AUX mode. For details, see page 227.

8 **"MODE" button**
Push this button to display the audio selection screen. For details, see page 177.

9 **"AUDIO" button**
Push this button to display the audio control screen. For details, see page 177.

10 **Function button display screen**
Touch the touch screen buttons displayed on the screen to control the radio, CD player, SD/USB player, Bluetooth® audio, AUX or iPod. For details, see page 177.

11 **CD slot**
Insert a disc for the CD player into this slot. For details, see page 194.

Using your audio system — — Some basics

Vehicles with smart entry and start system—

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

Vehicles without smart entry and start 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.

FCC ID: XEMNA08A01
IC ID: 8192A-NA08A01
MADE IN JAPAN

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

⚠CAUTION

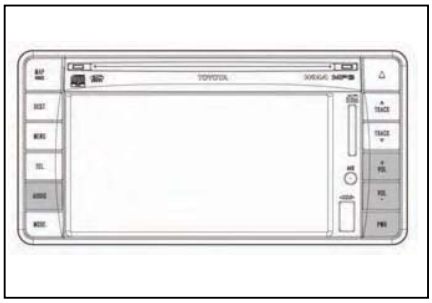
- **Part 15 of the FCC Rules**

  FCC Warning:

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

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

- **Turning the system on and off, and adjusting the volume**



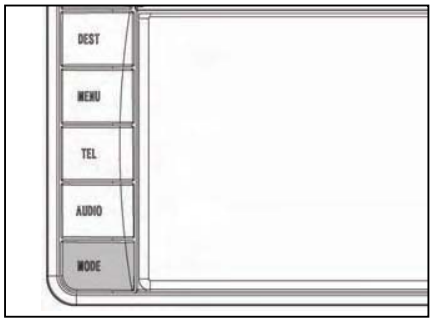
"PWR" button: Push this button to turn the audio system on and off. The system turns on in the last mode used.

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

"+ VOL" or "VOL –" button: Push this button to adjust the volume.

You can select the function that enables automatic return to the previous screen from the audio screen. See "(a) Automatic transition" on page 169 for details.

- **Switching between functions**



1. Push the "MODE" button.

2. Touch the desired mode touch screen button. The screen of the selected mode is displayed.

Touch these touch screen buttons if you want to switch from one mode to another.

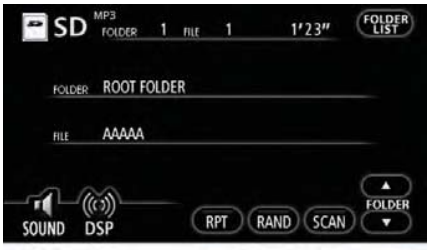
Changing modes to Satellite Radio, CDCH, Bluetooth® audio, iPod, SD, USB, or AUX is not possible unless they are connected.

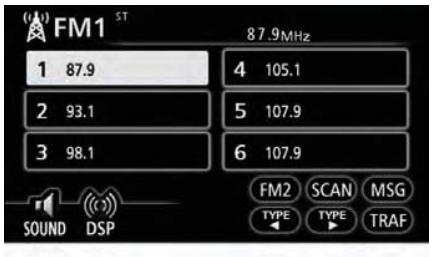
If the disc is not set, the "CD" screen will not appear.

AM
530kHz
1 530
2 620
3 1060
4 1510
5 1740
6 1740
SOUND
DSP
SCAN

Bluetooth Audio
TRACK 1 1'23"
ARTIST AAAAAAAA
ALBUM BBBBBBBB
TRACK CCCCCCCC
Connect
ALBUM
SOUND
DSP
RPT
RAND

SAT1 The 70s CH007 ROCK
1 CH007 The 70s
2 CH120 XM News
3 CH050 The 80s
4 CH070 The 90s
5 CH041 The 60s
6 CH167 America
CAT SEEK
SAT2
TEXT
CAT
SCAN
SOUND
DSP


SD MP3 FOLDER 1 FILE 1 1'23"
FOLDER LIST
FOLDER ROOT FOLDER
FILE AAAAA
FOLDER
SOUND
DSP
RPT
RAND
SCAN


FM1 ST
87.9MHz
1 87.9
2 93.1
3 98.1
4 105.1
5 107.9
6 107.9
FM2
SCAN
MSG
TYPE
TYPE
TRAF
SOUND
DSP

USB MP3 FOLDER 1 FILE 1 1'23"
FOLDER LIST
FOLDER ROOT FOLDER
FILE AAAAA
FOLDER
SOUND
DSP
RPT
RAND
SCAN

CD TRACK 1 1'23"
TRACK LIST
DISC BEST SELECTIONS
TRACK AAAAA
SOUND
DSP
RPT
RAND
SCAN

AUX
AUX unit is in play mode
SOUND
DSP

*if the iPod connecting cable is connected

The touch screen buttons for radio, CD player, SD/USB player, Bluetooth® audio, AUX and iPod operation are displayed on the function button display screen when the audio control mode is selected.

Touch them lightly and directly on the screen.

The selected touch screen 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**

Tone

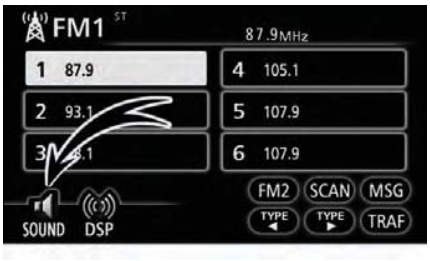
How good an audio program sounds to you is largely determined by the mix of the treble, midrange, and bass levels. In fact, different kinds of music and vocal programs usually sound better with different levels of treble, midrange, and bass.

Balance

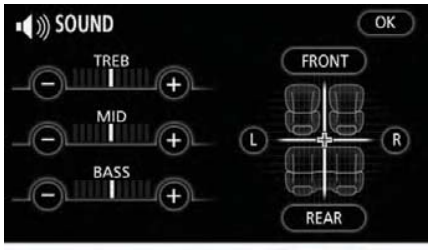
A good balance of the left and right stereo channels and of the front and rear sound levels is also important.

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

1. Push the “AUDIO” button.



2. Touch “SOUND”.



3. Touch the desired touch screen button.

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

"MID" "+" or "–": Adjusts mid-pitched tones.

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

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

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

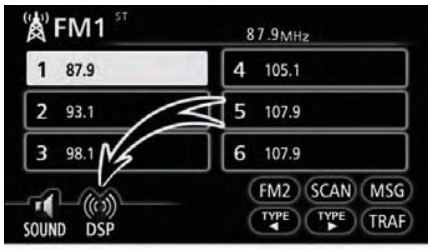
4. Touch "OK".

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

- **DSP control**

You can change the automatic sound levelizer and the equalizer system.

1. Push the "AUDIO" button.



2. Touch "DSP".

Automatic sound levelizer (ASL):
When the audio sound becomes difficult to hear due to road noise, wind noise or other noises while driving, touch **"HIGH"**, **"MID"** or **"LOW"**. The system adjusts to the optimum volume and tone quality according to the noise level.

When the system is on, the sound adjustment level is displayed on the screen.

To turn off the system, touch the **"OFF"**.

Equalizer system (EQ):

The equalizer system consists of three different preset equalizer modes. You can select from **"COMPACT"**, **"SUV"** or **"SEDAN"** depending on your vehicle body type.

To turn off the system, touch the **"OFF"**.

- **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.

- **CD changer**

If an optional CD changer is installed, CDs can be played continuously with no need of changing CDs. Push the **"MODE"** button and then touch **"CDCH"** to select CDCH mode.

For details, refer to the CD changer owner's manual.

- **iPod connecting cable**

If an optional iPod connecting cable is installed, an iPod can be used by connecting the cable. For details, see page 229.

— Radio operation

- **Listening to the radio**

1. Push the "MODE" button.

2. Touch these touch screen buttons to choose either an AM or FM station.

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

Changing between FM1 and FM2: Touch "FM1" or "FM2" on the screen.

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 touch screen buttons (1 — 6) you want and hold it until a beep is heard.

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

Each radio mode 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 (1 — 6) for the station you want. The touch screen button is highlighted and the station frequency appears on the screen.

Frequency adjustment: Push the **"∧TRACK"** button to increase and the **"TRACK∨"** button to decrease the frequency.

Seek tuning: Push and hold the **"∧TRACK"** or **"TRACK∨"** button. The radio will begin seeking up or down for a station of the nearest frequency and will stop when a station is received. Each time the button is pushed, the next available station will be played.

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

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

- **Radio Data System**

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

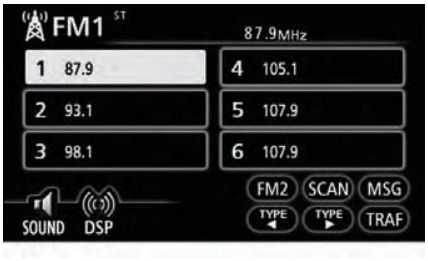
When RDS is on, the radio can

— only select stations of a particular program type,

— display messages from radio stations,

— search for a stronger signal station.

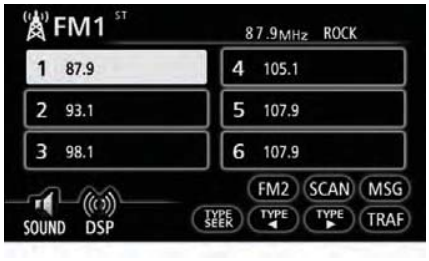
RDS features are available for the use only on FM stations which broadcast RDS information.



"TYPE◄►"

Each time you touch **"TYPE◄"** or **"TYPE►"**, the program type changes as in the following:

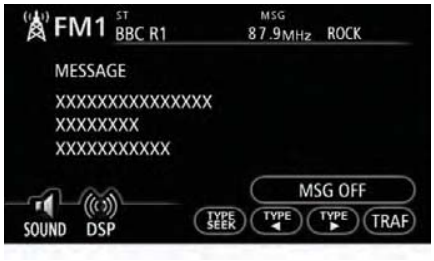
- ROCK
- EASY LIS (Easy listening)
- CLS/JAZZ (Classical music and Jazz)
- R & B (Rhythm and Blues)
- INFORM (Information)
- RELIGION
- MISC (Miscellaneous)
- ALERT (Emergency message)



"TYPE SEEK"

When a program is set, "TYPE SEEK" appears. Touch the touch screen button and the system starts to seek the station in the relevant program type.

If any type program station is not found, "Nothing" appears on the screen.



"MSG" (MESSAGE)

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

When you touch **"MSG OFF"**, the display returns.

- **Traffic announcement**

"TRAF"

A station that regularly broadcasts traffic information is automatically located.

When you touch **"TRAF"**, "TRAF SEEK" appears on the screen and the radio will start seeking any traffic program station.

If no traffic program station is found, "NO TRAFINFO" appears on the screen.

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

— Radio operation (XM® Satellite Radio broadcast)

To listen to a satellite radio broadcast in your vehicle, 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 **“∧TRACK”** or **“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.

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

- **Listening to satellite radio**

(1) Push the "Mode" button.

(2) Touch "Satellite Radio".

Push the "AUDIO" button to display the satellite radio operation screen.

- **Changing the band**

The band changes each time "SAT2" is touched.

The band changes sequentially between **"SAT1"**, **"SAT2"**, and **"SAT3"**.

- **Channel category**

Touch either **"CAT◄"** or **"CAT►"** to go to the next or previous category.

- **Presetting a channel**

1. Tune in the desired channel.

2. Touch one of the channel selector touch screen 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.

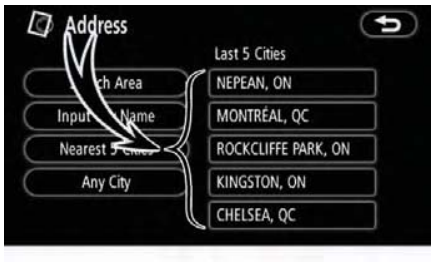
Preset tuning: Touch the channel selector button (1—6) for the channel you want. The touch screen button (1—6) is highlighted and channel number appears on the screen.

To select channel within the current category: Push the **"∧ TRACK"** or **"∨ TRACK"** button. The radio will step up or down the receivable channel within the current channel category. If you push and hold the **" ∧ TRACK"** or **" ∨ TRACK"** button, the radio will begin seeking up or down for the next receivable channel and will stop when the button is released. Touch either **"CAT SEEK◄"** or **"CAT SEEK►"**. The radio will step up or down the channel within the current channel category.

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

To scan the preset channels: Touch **"SCAN"** on the screen for longer than a second. "P.SCAN" appears on the screen. The radio will find the next preset channel, stay there for a few seconds, and then move to the next preset channel. To select a channel, touch **"SCAN"** again.

- **Displaying the title and name**



When you touch **"TEXT"**, the song/program title and the artist name/feature are 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 contract is canceled, you can choose the “CH000” and all free−to−air channels.
	The premium channel you selected is not authorized. Wait for about 2 seconds until the radio returns to the previous channel or “CH001”. If it does not change automatically, select another channel. If you want to listen to the premium channel, contact the XM® Satellite Radio.
NO SIGNAL	The XM® signal is too weak at the current location. Wait until your vehicle reaches a location with a stronger signal.
LOADING	The unit is acquiring audio or program information. Wait until the unit has received the information.
OFF AIR	The channel you selected is not broadcasting any programming. Select another channel.
_____	There is no song/program title or artist name/feature associated with the channel at that time. No action needed.
___	The channel you selected is no longer available. Wait for about 2 seconds until the radio returns to the previous channel or “CH001”. If it does not change automatically, select another channel.

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

NOTICE

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

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

— Reorient or relocate the receiving antenna.

— Increase the separation between the equipment and receiver.

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

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

Information to user

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, MP3 discs.

- Audio CD, CD text 196
- MP3/WMA disc 199

For appropriate discs for this paper, see “Audio system operating hints” on page 214.

(a) Inserting or ejecting disc

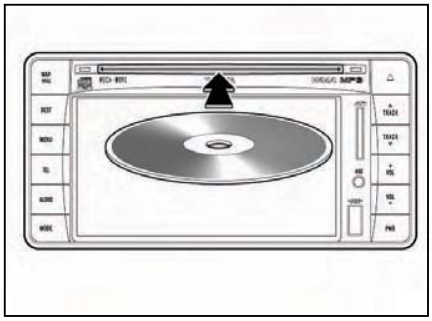
Vehicles with smart entry and start system—

The “ENGINE START STOP” switch must be in the ACCESSORY or IGNITION ON mode.

Vehicles without smart entry and start system—

The engine switch must be set at ACC or ON position.

- **Setting a disc**

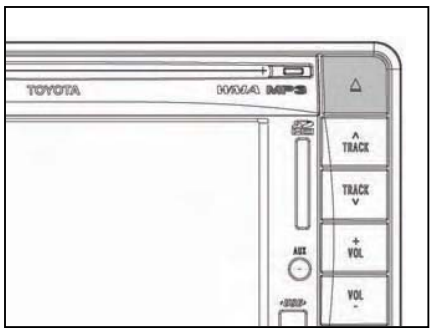


Insert a disc.

After insertion, the set disc is automatically loaded.

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

- **Ejecting a disc**



Push the "⏏" button.

The disc will be ejected. A disc can then be inserted.

(b) Playing a disc

Push the "MODE" button and touch "CD" if the disc are already loaded in the CD player.

The "CD" screen will be displayed.

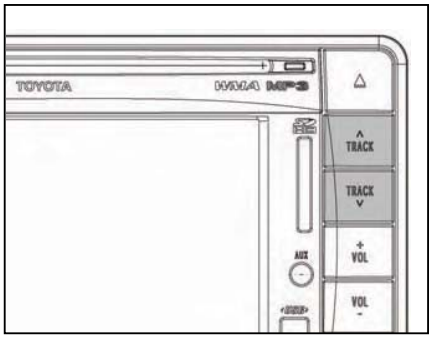
(c) Operating an audio CD

- **Playing an audio CD**

Push the "AUDIO" button to display this screen.

CD text only — The disc title and track title will appear on the screen when pushing the **"MODE"** button and touch "CD".

- **Selecting a desired track**



"∧ TRACK" or "TRACK ∨" button: Use for a direct access to a desired track.

Push the **"∧ TRACK"** or **"TRACK ∨"** button 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.

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 touch screen 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 touch screen button, the list moves down by 6 track groups. If this touch screen button is touched when the last page of the list is displayed, the top page is displayed.

Fast forward: Push the **"∧ 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 the **"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 continue scanning 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 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 the **"RPT"** once again.

"RAND": Use it for automatic and random selection.

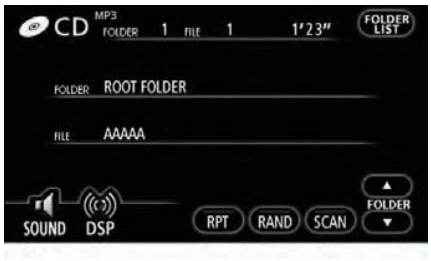
While the disc is playing, touch "RAND" briefly.

"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.

(d) Operating a MP3/WMA DISC

- **Playing a MP3/WMA disc**



Push the "AUDIO" button to display this screen.

- **Selecting a desired folder**

"FOLDER▲": Touch this touch screen button to go to the next folder.

"FOLDER▼": Touch this touch screen button to go to the previous folder.

"FOLDER LIST": The desired folder can be selected in a list.

Touch **"FOLDER LIST"**. The folder list is displayed.

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

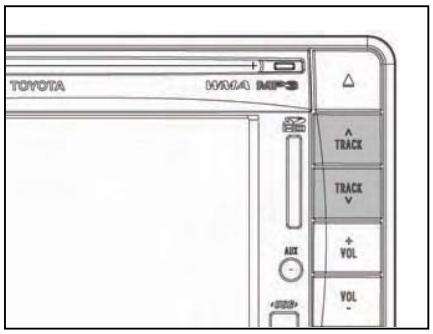
: By touching this touch screen button, the list moves up by 6 folder groups. If this button is touched when the top page of the list is displayed, the last page is displayed.

: By touching this touch screen button, the list moves down by 6 folder groups. If this touch screen 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.

- **Selecting a desired file**

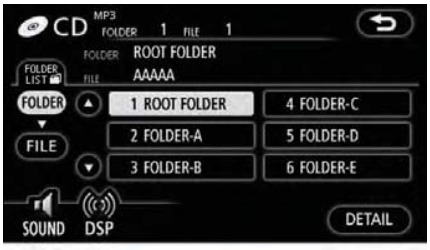


"∧TRACK" or "TRACK∨" button: Use for direct access to a desired file.

Push the **"∧TRACK"** or **"TRACK∨"** button and repeat 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 listening to appears.

Fast forward: Push the **"∧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 the **"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.

Touch **"FILE"**. The file list is displayed.

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

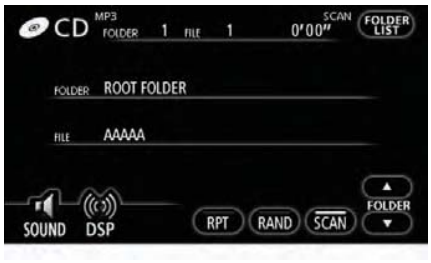
: By touching this touch screen button, the list moves up by 6 file groups. If this button is touched when the top page of the list is displayed, the last page is displayed.

: By touching this touch screen button, the list moves down by 6 file groups. If this touch screen 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.

- **Searching for a desired file**

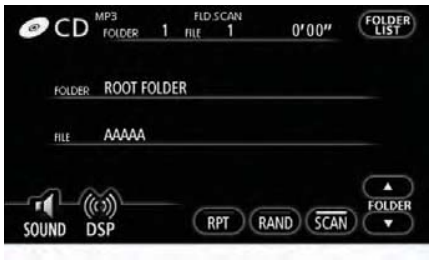


While the disc is playing, touch "SCAN" briefly.

"SCAN" appears on the screen. The CD player will play the next file in the folder for 10 seconds, then scan again. To select a file, touch **"SCAN"** once again. If the CD player reaches the end of the folder, it will continue scanning from file 1.

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

- **Searching for a desired folder**

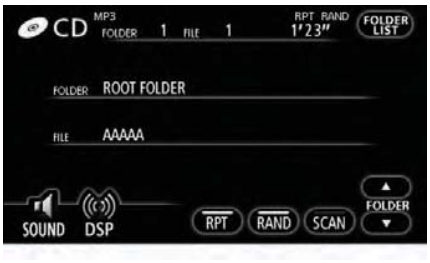


While the disc is playing, touch "SCAN" and hold it until the "FLD.SCAN" appears on the screen.

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 touch screen button once again.

When a file is skipped or the system is inoperative, touch **"RAND"** to reset.

(e) If the player malfunctions

If 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 "Check CD" appears on the display: It indicates that the disc dirty, damaged, or it was inserted upside down. Clean the disc or insert it correctly. If a disc which is not playable is inserted, "Check CD" will also appear on the screen. For appropriate discs for this player, see "Audio system operating hints" on page 214.

If "CD error" appears on the display: The following causes are possible.

- There is a trouble inside the system. Eject the disc.
- It indicates that the inside of the player unit may be too hot due to the very high ambient temperature. Remove the disc from the player 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 Toyota 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.

— SD/USB player operation

The SD/USB player can play SD memory cards and USB memory devices.

Some SD memory cards and USB memory devices may not operate properly.

For appropriate SD memory cards and USB memory devices for this paper, see “Audio system operating hints” on page 238.

⚠CAUTION

Do not insert or eject the SD memory card or USB memory device while driving.

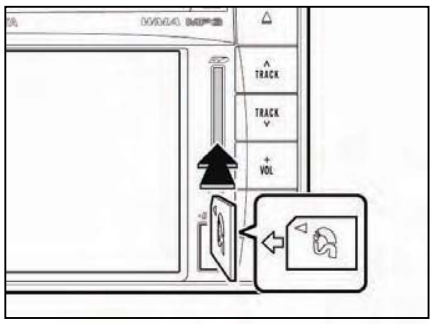
NOTICE

Do not insert foreign objects into the port as this may damage the SD memory card or USB memory device or their terminals.

(a) Inserting or ejecting an SD memory card

- **Setting an SD memory card**

Remove the map SD memory card before inserting another SD memory card. For details, see page 205. While the map SD memory card is removed, the navigation system cannot be used.

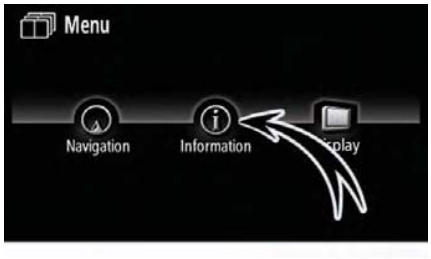


Insert an SD memory card.

After insertion, the set SD memory card is automatically loaded.

- **Ejecting an SD memory card**

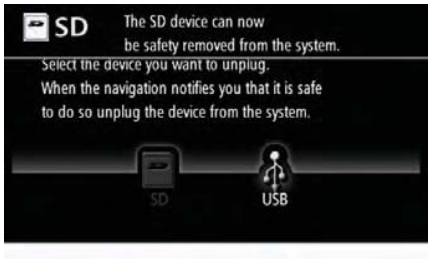
1. Push the “MENU” button.



2. Touch “Information”.

3. Touch “Remove device”.

4. Touch “SD”.

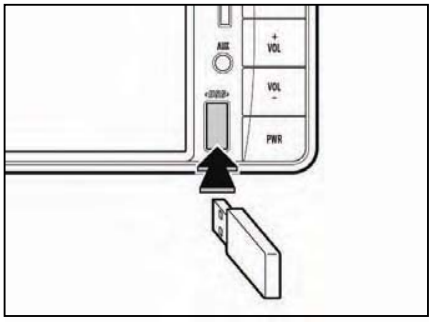


5. Push the SD memory card lightly to remove it.

The SD memory card will be ejected. An SD memory card can then be inserted.

(b) Plugging or unplugging a USB memory device

- **Setting a USB memory device**



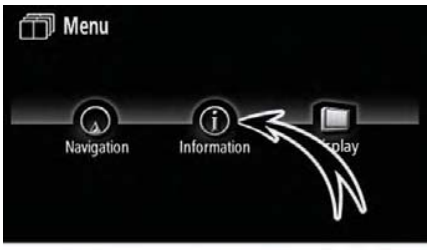
Plug a USB memory device into the port.

After insertion, the set USB memory device is automatically loaded.

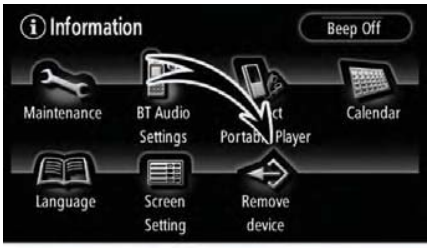
NOTICE
● ***Do not leave your USB memory device in the car. In particular, high temperatures inside the vehicle may damage the USB memory device.***
● ***Do not push down on or apply unnecessary pressure to the USB memory device while it is connected as this may damage the USB memory device or its terminal.***

- **Unplugging a USB memory device**

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



2. **Touch "Information".**



3. **Touch "Remove device".**

4. Touch “USB”.

5. Unplug the USB memory device.

A USB memory device can then be inserted.

(c) Playing an SD memory card/USB memory device

Push the “MODE” button and touch “SD” or “USB” if the SD memory card/USB memory device are already loaded in the SD/USB player.

The “SD” or “USB” screen will be displayed.

(d) Operating an SD memory card/USB memory device

- **Playing an SD memory card/USB memory device**

Push the "AUDIO" button to display this screen.

- **Selecting a desired folder**

"FOLDER▲": Touch this touch screen button to go to the next folder.

"FOLDER▼": Touch this touch screen button to go to the previous folder.

"FOLDER LIST": The desired folder can be selected in a list.

Touch **"FOLDER LIST"**. The folder list is displayed.

Touch the desired folder number. The SD/USB player will start playing the first file of the selected folder.

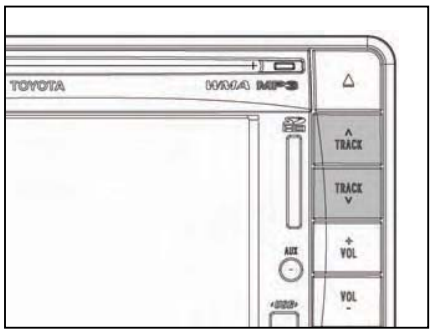
: By touching this touch screen button, the list moves up by 6 folder groups. If this button is touched when the top page of the list is displayed, the last page is displayed.

: By touching this touch screen button, the list moves down by 6 folder groups. If this touch screen 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.

- **Selecting a desired file**

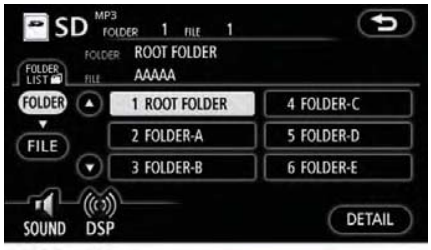


"∧ TRACK" or "TRACK ∨" button: Use for direct access to a desired file.

Push the **"∧ TRACK"** or **"TRACK ∨"** button and repeat until the desired file number appears on the display. As you release the button, the SD/USB 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 listening to appears.

Fast forward: Push the **"∧ TRACK"** button and hold it to fast forward the SD memory card/USB memory device. When you release the button, the SD/USB player will resume playing from that position.

Reverse: Push the **"TRACK∨"** button and hold it to reverse the SD memory card/USB memory device. When you release the button, the SD/USB player will resume playing.



"FILE": The desired file can be selected in a list.

Touch **"FILE"**. The file list is displayed.

Touch the desired file number. The SD/USB player will start playing the selected file from the beginning.

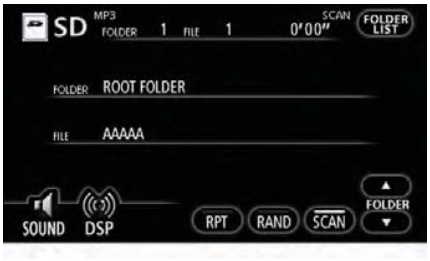
: By touching this touch screen button, the list moves up by 6 file groups. If this button is touched when the top page of the list is displayed, the last page is displayed.

: By touching this touch screen button, the list moves down by 6 file groups. If this touch screen 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.

- **Searching for a desired file**

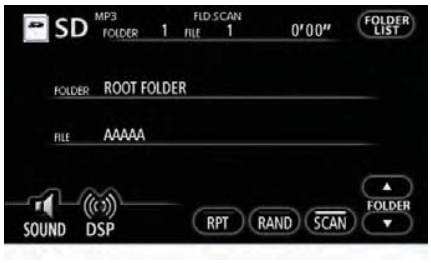


While the SD memory card/USB memory device is playing, touch "SCAN" briefly.

"SCAN" appears on the screen. The SD/USB player will play the next file in the folder for 10 seconds, then scan again. To select a file, touch **"SCAN"** once again. If the SD/USB player reaches the end of the folder, it will continue scanning from file 1.

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

- **Searching for a desired folder**

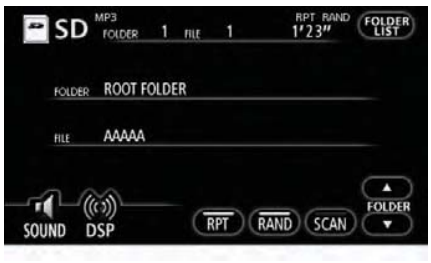


While the SD memory card/USB memory device is playing, touch "SCAN" and hold it until the "FLD.SCAN" appears on the screen.

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 SD/USB 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 SD/USB 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 SD memory card/USB memory device which you are currently listening to.

Playing the files in one folder in random order —

While the SD memory card/USB memory device 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 SD memory card/USB memory device in random order —

While the SD memory card/USB memory device 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 touch screen button once again.

When a file is skipped or the system is inoperative, touch **"RAND"** to reset.

(e) If the player malfunctions

If the player malfunctions, your audio system will display following messages.

If "No SD Card" or "USB memory is not connected." appears on the display: It indicates that there is no SD memory cards or USB memory device in the SD/USB player.

If "Please check SD Card." or "Please check USB memory." appears on the display: This comes on in such cases as when the SD memory card/USB memory device is damaged. Replace the SD memory card/USB memory device with one that works properly. If an SD memory card or USB memory device not playable is inserted, "Please check SD Card." or "Please check USB memory." will also appear on the screen. For an appropriate SD memory card/USB memory device for this player, see "Audio system operating hints" on page 238.

If "No SD Card." or "USB memory is not connected." appears on the display: The following causes are possible.

- There is a trouble inside the system. Eject the SD memory card or unplug the USB memory device.
- It indicates that the inside of the player unit may be too hot due to the very high ambient temperature. Eject the SD memory card or unplug the USB memory device from the player allow the player to cool down.

If "No playable music data in SD Card." or "No playable music data in USB memory." appears on the display: It indicates that the SD memory card/USB memory device has no playable data.

If the malfunction is not rectified: Take your vehicle to your Toyota dealer.

—Bluetooth® audio operation

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

This audio system supports Bluetooth®, a wireless data system capable of playing portable audio music without cables.

If your portable player does not support Bluetooth®, the Bluetooth® audio system will not function.

INFORMATION

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

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

Bluetooth is a trademark owned by Bluetooth SIG. Inc.

⚠CAUTION

Use a portable player or connect the Bluetooth® audio only when safe and legal to do so.

NOTICE

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

INFORMATION

- ***In the following conditions, the system may not function.***
  - ***The portable player is turned off.***
  - ***The portable player is not connected.***
  - ***The portable player has a low battery.***
- ***Depending on the portable player that is connected to the system, certain functions may not be available.***
- ***If Bluetooth® devices are used for hands-free phone and Bluetooth® audio connections at the same time, the following may occur.***
  - ***The Bluetooth® connection may be cut off.***
  - ***Noise may occur in the audio played from the portable player.***
- ***Even if using a cellular phone that is capable of both hands-free phone and Bluetooth® audio connections, simultaneous connection may not be possible in some cases.***

1 Indicates the condition of the Bluetooth® connection.

"Blue" indicates an excellent connection to Bluetooth®.

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

: No connection to Bluetooth®.

2 Indicates the amount of battery charge left.

Empty ⟷ Full

It is not displayed while the Bluetooth® is not connected.

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

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

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

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

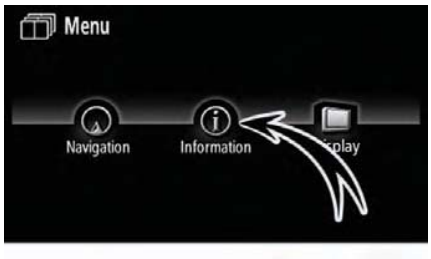
The portable player information is registered when the Bluetooth® audio system is connected. When you release possession of your vehicle, remove your portable player. (See “Deleting a portable player” on page 226.)

(a) Enter a Bluetooth® audio player

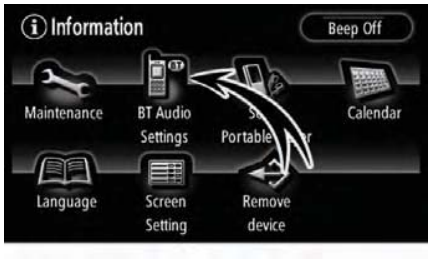
To use the Bluetooth® audio system, you need to enter your portable player into the system. Once you have registered it, you can enjoy your music on the vehicle’s audio system.

A maximum of two portable players can be registered.
Please refer to the manual that comes with your portable player for operation of the portable player.

1. Push the “MENU” button.



2. Touch “Information”.



3. Touch “BT Audio Settings” to display the “BT Audio Settings” screen.

4. Touch "Register" to connect your portable player to the system.

5. When this screen is displayed, enter the passcode displayed on the screen into the portable player.

For the operation of the portable player, see the manual that comes with your portable player.

If you want to cancel the entry, touch **"Cancel"**.

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

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

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

INFORMATION

- ***The passcode is used to register the portable player in the vehicle's audio system. You can create a password of your choice. (See "Changing the Bluetooth® audio settings" on page 222)***
- ***For portable players lacking passcode entry capability, such as those without operation switches, change the audio system's passcode to that of the portable player. (See "Changing the Bluetooth® audio settings" on page 222)***
- ***Refer to the manual that comes with the portable player for information about the portable player's passcode.***

- **Connecting a portable player**

The portable player can be connected to the audio system either automatically or manually.

AUTOMATICALLY

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

Vehicles with smart entry and start system—

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

This screen appears when the Bluetooth® portable player is first connected after the "ENGINE START STOP" switch is turned to the ACCESSORY or IGNITION ON mode.

Vehicles without smart entry and start system—

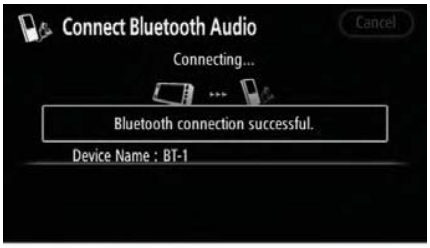
When the engine switch is in the ACC or ON position, the selected Bluetooth® portable player will be automatically connected and the connection result is displayed.

This screen appears when the Bluetooth® portable player is first connected after the engine switch is turned to the ACC or ON position.

MANUALLY

When the auto Bluetooth® connection is "Off", you have to connect Bluetooth® manually.

Touch "Connect" after having enabled the Bluetooth® connection on the portable player.



When the connection is complete, this screen is displayed. Now you can use the Bluetooth® portable player.

From portable player

When making a connection from the portable player, operate the portable player controls to connect.

To make a connection from the portable player, first display this "Connect Bluetooth* Audio" screen.

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

INFORMATION
Auto Bluetooth® connect may not be available for certain portable players, which must be connected manually.

- **Reconnecting the Bluetooth® audio player**

Vehicles with smart entry and start system—

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

Vehicles without smart entry and start system—

If the Bluetooth® audio system is disconnected with a poor reception from the Bluetooth® network when the engine switch is in the ACC or ON position, the system automatically reconnects the Bluetooth® audio player. In this case, the connection result is not displayed.

If the Bluetooth® is disconnected on purpose, such as when you turn off your portable player, this does not happen. Reconnect it by the following methods.

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

(b) Operating a Bluetooth® audio player

Push the "MODE" button and touch "BT". The "Bluetooth* Audio" screen will be displayed.

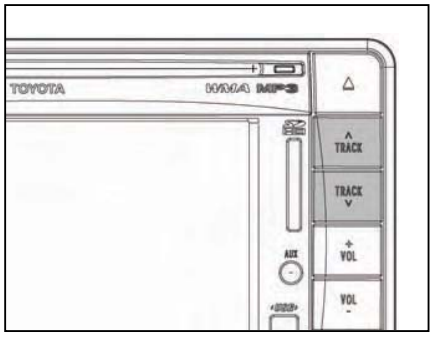
Depending on the portable player that is connected to the system, functions such as display of the artist name or control touch screen buttons shown here may not be available.

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

- **Playing a Bluetooth® audio**

Touch "►" and the music will start playing.
Touch "▌▌" and the music will pause.

- **Selecting a desired track**



"∧TRACK" or "TRACK∨" button: Use for direct access to a desired audio track.

Push the **"∧TRACK"** or **"TRACK∨"** button and repeat until the desired track number appears on the screen. As you release the button, the player will start playing the selected track from the beginning.

Fast forward:
Push and hold the **"∧TRACK"** button to fast forward the player. When you release the button, the player will resume playing from that position.

Reverse:
Push and hold the **"TRACK∨"** button to reverse the player. When you release the button, the player will resume playing.

- **Selecting a desired album**

"ALBUM▲": Touch this touch screen button to select the next album.

"ALBUM▼": Touch this touch screen button to select the previous album.

- **Other functions**

"RPT": Use this control to automatically replay the track you are currently listening to.

Repeating a track —

While the track is playing, touch "RPT" briefly.

"RPT" appears on the screen. When the track is finished, the player will automatically play it again. To cancel the repeat, touch **"RPT"** once again.

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

While a track is playing, touch "RAND" briefly.

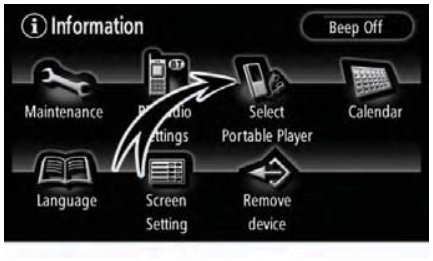
"RAND" appears on the screen. The system selects a track in the album you are currently listening to. To cancel this function, touch **"RAND"** once again.

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

(c) Change the Bluetooth® audio settings

- **Selecting a portable player**

If you register a second portable player, either one can be selected for connection.



1. Touch "Select Portable Player" to display the "Select Portable Player" screen.

You can select from a maximum of two Bluetooth® portable players.

"empty" is displayed when you have not registered a Bluetooth® portable player. The Bluetooth® mark is displayed when you choose the portable player.

2. Select desired portable player and then touch "OK".

Although you can register up to two portable players in the system, only one portable player can function at a time.

- **Displaying portable player information**

You can see the information of the portable player on the system.

"Device Name"

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

"Bluetooth* Device Address"

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

"Connection Method"

..... The connection method can be switched between "From Display Device" and "From Portable Player".

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

1. Select desired portable player and then touch "Portable Player Info".

2. When you complete confirming it, touch .

- **Changing the device name**

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

1. Touch “Edit”.

2. Use the software keyboard to input the device name and then touch “OK”.

- **Changing the connection method**

The connection method can be selected.

From Display Device: Connect the audio system to the portable player.

From Portable Player: Connect the portable player to the audio system.

Select desired connection method “From Display Device” or “From Portable Player” and then touch “OK”.

INFORMATION
If the connection method is set to “From Portable Player”, “Auto Bluetooth* connect” (see page 217) cannot be selected.

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

- **Displaying the Bluetooth® audio settings**

You can see the Bluetooth® audio information settings on the system.

"Device Name"

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

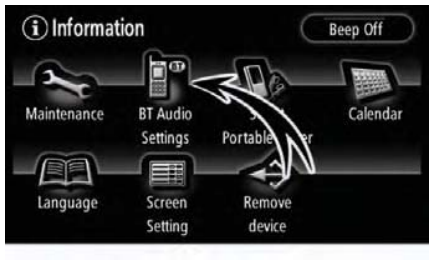
"Passcode"

..... The password when you register your portable audio player in the system. You can change it into the figure of 4-8 digits.

"Device Address"

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

- **Changing the device name or passcode**

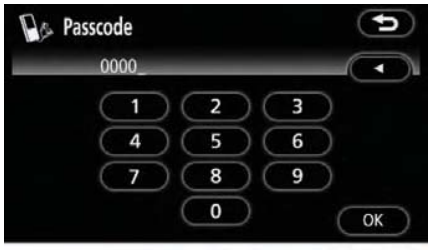


1. Touch "BT Audio Settings".

2. Touch "Edit" at "Device Name" or "Passcode".

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

You can input up to 20 characters.



4. Input a Passcode with 4-8 digits. When you touch "◄", the input number is deleted.

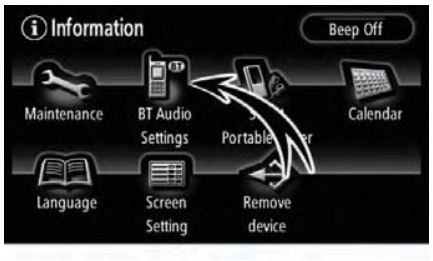
- **Initializing the Bluetooth® audio settings**

You can initialize the settings.

1. Touch "Default".

2. Touch "Yes".

- **Deleting a portable player**



1. Touch “BT Audio Settings”.

2. Touch “Remove” at “Bluetooth* Settings”.

3. Select the portable player you want to delete and touch “OK”.

4. Touch “Yes”.

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

— AUX operation

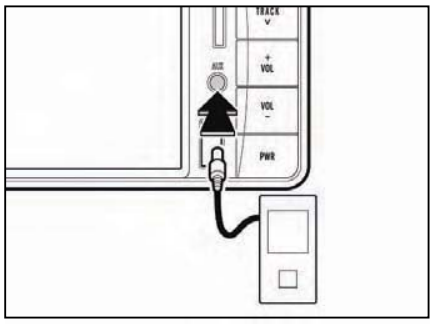
Music stored on commercially available portable audio devices can be played back by connecting the devices to the audio system.

When using portable audio devices with the audio system, please read over the portable audio device instruction manual carefully and ensure that the device is fully compatible prior to use.

⚠CAUTION

- **Place the portable audio device in a location that will not interfere with SRS airbag deployment. Failure to do so may result in death or serious injury due to the inability of the airbag to function properly or if the portable audio device is thrown during SRS airbag deployment.**
  Refer to the vehicle instruction manual for details of the SRS airbag deployment location.
- **Avoid placing the portable audio device in a location that will interfere with driving, or temporarily secure in a location that will not interfere with driving.**
  This may hinder driving or lead to traffic accidents.

(a) Connecting (disconnecting) portable audio devices



Ensure that the portable audio device power is turned OFF.
Ensure that the audio mode is set to a mode other than AUX, or that the audio system power is turned OFF.

Connect (or disconnect) the AUX port.

NOTICE

- ***Avoid getting hands caught in the AUX port.***
- ***Do not connect, operate, or disconnect the portable audio device while driving.***
- ***Store portable audio devices away from direct sunlight when not in use.***

INFORMATION

- ***Disconnecting or connecting the portable audio device while in AUX mode may lead to distortion and speaker damage. Always ensure to turn off the audio system power or switch to another mode prior to disconnecting or connecting.***
- ***Changing the portable audio device power supply while in AUX mode may lead to distortion and speaker damage. Always ensure to turn off the audio system power or switch to another mode prior to changing the portable audio device power supply.***
- ***Please note that the volume level will vary due to differing output levels depending on the connected device.***
- ***If the volume is adjusted while in AUX mode, the volume can be stored as the volume level for AUX mode. This stored volume level will be returned to its default setting if the portable audio device is disconnected.***
- ***When using a portable audio device connected to the power outlet or cigarette lighter, noise may occur during playback.***
  If this happens, use the power source (battery) of the portable audio device.

(b) Operating a portable audio devices

1. Turn ON the portable audio device power and playback music.

Refer to the manual provided with the portable audio device for details of operation.

2. Push the "MODE" button and touch "AUX". The "AUX" screen will be displayed.

Played back audio from the portable audio device is output from the speakers.

— iPod operation

This function can be operated only when an optional iPod connecting cable is connected.

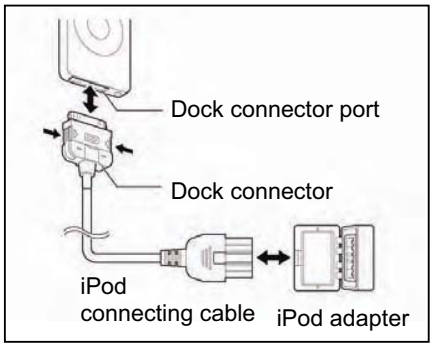
iPod music files can be played by connecting your iPod to the audio system. Furthermore, it is also possible to perform such operations as selecting tracks from the play list and changing the shuffle mode at the audio system.

This system supports only an iPod featuring the dock connector port.

For details, refer to your iPod Owner's Manual.

(a) Connecting or disconnecting your iPod

- **Connecting your iPod**

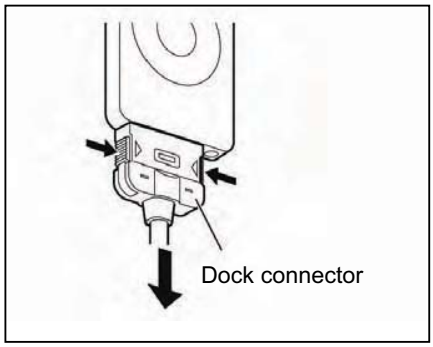


Connect your iPod with the dock connector.

Disconnect all iPod accessories with the exception of the remote control.

As soon as the iPod is connected, its power is automatically turned on.

- **Disconnecting your iPod**



Press the sides of the dock connector in the direction shown by the arrows above to disconnect your iPod.

NOTICE

- ***Please understand that no compensation can be awarded for lost data, even if iPod data is lost when connected to the audio system.***
- ***The iPod may become deformed, discolored, or damaged due to heat if left exposed to direct sunlight for long periods of time. Store away from direct sunlight when not in use.***
- ***Fix the iPod securely when using with this unit. Do not let the iPod fall onto the floor, where it may become jammed under the brake or accelerator pedal.***
- ***You may hear noise if you disconnect during iPod playback.***

INFORMATION

- ***Check that your iPod is supported by the audio system. Refer to "Supported iPods" (page 237) for a list of supported iPods.***
- ***The system will not automatically switch to iPod mode when the audio system and iPod are connected.***
- ***"TOYOTA" displays at the iPod when connected to the audio system. Please note that operation cannot be performed using your iPod while "TOYOTA" is displayed.***
- ***If your iPod is connected to the audio system with the iPod power OFF, "TOYOTA" will not display, and the "Charging complete" mark may display. If this happens, push any button on your iPod to display "TOYOTA".***
- ***Vehicles with smart entry and start system—***
  While the "ENGINE START STOP" switch is in the ACCESSORY or IGNITION ON mode, the battery of the connected iPod will be charged.
  Vehicles without smart entry and start system—
  While the engine switch is in the ACC or ON position, the battery of the connected iPod will be charged.
- ***The track order in the play list displayed at the audio system may differ from that at your iPod when connected to the system.***
- ***If your iPod becomes inoperable, disconnect and then reconnect after resetting. Refer to the iPod instruction manual for details of the reset method.***
- ***There are times when video file names display in the track play list, however, no support is available for playback of video files.***
- ***While the iPod is connected to this audio system, the iPod itself cannot be turned on or off.***
- ***Vehicles with smart entry and start system—***
  The connected iPod will be turned off about two minutes after the "ENGINE START STOP" switch is turned off.
  Vehicles without smart entry and start system—
  The connected iPod will be turned off about two minutes after the engine switch is turned to the LOCK position.

(b) Operating to your iPod

Push the "MODE" button and touch "iPod". The "iPod" screen will displayed.

- **Playing to your iPod**

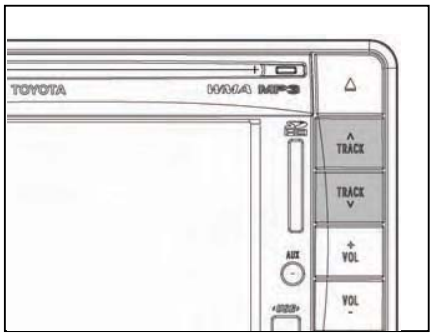
Touch "►" and the music will start playing.

Touch "❚❚" and the music will pause.

INFORMATION

- ***Depending on the number of music files stored on your iPod, and the software version, there may be times when the system does not respond immediately or function properly when performing operations at the operation screen.***
- ***"Ok to disconnect.", displays on the iPod unit. However, in order to protect your iPod, it is recommended that the dock connector not be disconnected during music playback.***
- ***Vehicles with smart entry and start system—***
  If the system does not function properly, disconnect your iPod from the dock connector and then turn the "ENGINE START STOP" switch off. Turn the iPod off then back on. Turn the "ENGINE START STOP" switch back to the ACCESSORY or IGNITION ON mode and then connect the iPod to the dock connector again.
  Vehicles without smart entry and start system—
  If the system does not function properly, disconnect your iPod from the dock connector then turn the engine switch off. Turn the iPod off then back on. Turn the engine switch back to the ACC or ON position and then connect the iPod to the dock connector again.
- ***You cannot operate the iPod Equalizer on products. We recommend that you set the iPod Equalizer to off, before connecting the iPod to this unit.***

- **Selecting a desired music file**



" ∧ TRACK" or **"TRACK ∨ "** button/"▶▶" or "◀◀": These buttons are used for direct access to a desired audio track. Push the **" ∧ TRACK"** or **"TRACK∨ "** button or touch "▶▶" or "◀◀" until the desired track number appears on the screen. When operation of the button or the screen is complete, the player will start playing the selected track from the beginning.

Fast forward: Push and hold the **"∧TRACK"** button or continue touching "▶▶" to fast forward the player. When you release the button, the player will resume playing from that position.

Reverse: Push and hold the **"TRACK∨"** button or continue touching "◀◀" to reverse the player. When you release the button, the player will resume playing.

"TRACK LIST": When **"TRACK LIST"** is touched, the list of files in which the music files currently being played back is displayed. The music file currently being played back displays at the top.

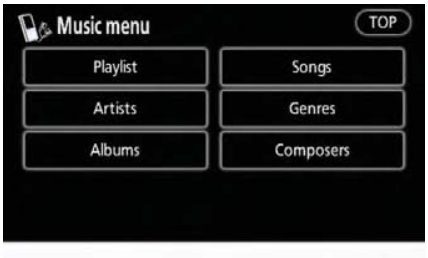
Touch a music file to play back the selected file.

- **Searching for the desired music file from the Music menu**

The desired music file can be searched for by displaying the track play list from the Music menu.

1. Touch "MENU".

Touch **"TOP"** to return to the iPod operation screen.



2. Touch the desired mode on the Music menu screen.

The screen shown at step **"4."** displays when **"Songs"** is selected.

3. Touch the desired list on the mode list screen.

Touch **"Play"** to playback the first music file in the selected list.

Touch **"ALL"** to select all displayed lists.

When there are 5 lists or more, touch , or , to change the list.

Touch to return to the level above.

4. Touch the applicable touch screen button to select the music file to be played back.

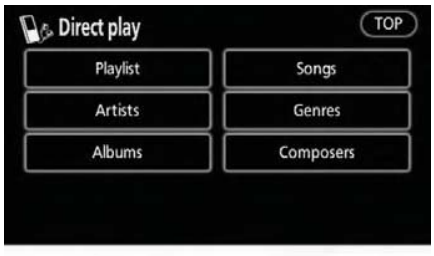
Commence playback.

- **Searching for the desired music files from direct mode**

Played back music files can be changed in various individual modes.

1. Touch "DIRECT".

Touch **"TOP"** to return to the iPod operation screen.



2. Touch the mode to be selected at the "Direct play" screen.

The iPod operation screen displays.

The mode changes to the selected mode and the first music file is played.

"Playlist": Plays back the iPod Playlist.

"Songs": Plays back all songs.

"Artists": Plays back the Artists list.

"Genres": Plays back the Genres list.

"Albums": Plays back the Albums list.

"Composers": Plays back the Composers list.

3. Touch "▲" or "▼".

"▲": Touch to select the next list (music files in Songs mode).

"▼": Touch to select the previous list (music files in Songs mode).

INFORMATION
When music files are played back from the "Music menu" screen, the system exits direct mode.

- **Other functions**

INFORMATION
If your iPod is disconnected while "RPT", "TRACK RANDOM", or "ALBUM RANDOM" is set, the iPod will switch to the repeat or shuffle setting.

"RPT": Repeats playback of the current track.

When the current track is finished, playback will begin again automatically from the beginning of that track. Touch **"RPT"** again to cancel.

Listening to tracks in the current play list randomly —

Touch "TRACK RANDOM".

The system selects a music file in the play list you are currently listening to. To cancel it, touch **"TRACK RANDOM"** once again.

Listening to albums randomly —

Touch "ALBUM RANDOM".

Albums can be listened to randomly. However music files in albums are played back from the first music file.

To cancel it, touch **"ALBUMRANDOM"** once again.

- **Supported iPods**

The following iPods can be used with the audio system. However, operation may not be possible depending on the condition of the iPod.

iPod−

4th generation, 5th generation

iPod photo−

iPod nano−

1st generation, 2nd generation, 3rd generation

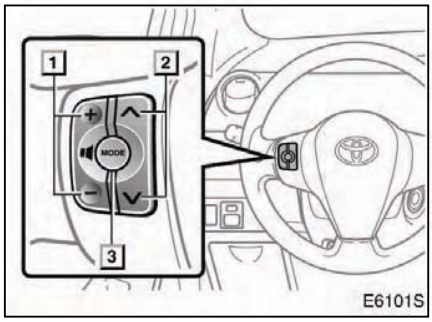
iPod classic−

iPod touch−

INFORMATION

- ***iPod® is a trademark of Apple Computer, Inc., registered in the U.S. and other countries.***
- ***The use of iPods is authorized for the copying and playback of non−copyrighted material or material for which legal copying and playback is authorized for personal use by individuals. Copyright infringements are prohibited by law.***
- ***Support is not available for the iPod photo display function or video footage display function.***

Audio remote controls — — Steering switches



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

Depending on the model or grade, steering wheel switches may not be available.

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

1 **Volume control switches**

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, Bluetooth® audio and SD/USB player

Use this switch 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.

MP3/WMA disc, SD memory card and USB memory device

To select a desired folder:
Push and hold the **"∧"** or **"∨"** side of the switch until you hear a beep. Repeat this until the folder you want to listen to is set.

3 "MODE" switch

Each time you push the **"MODE"** switch, the system changed 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 an appropriate disc into the CD player slot.***
- ***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.

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.

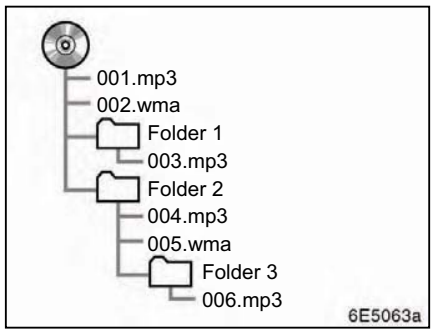
MP3/WMA files

- 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.

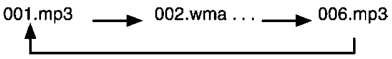
  The unit can play disc recordings compatible with ISO 9660 level 1 and level 2 and with the Romeo and Joliet file system.
- The SD/USB player can play MP3 and WMA files on SD memory card and USB memory device.
- When naming an MP3 or WMA file, add the appropriate file extension (.mp3 or .wma).
- The MP3/WMA player and SD/USB player play 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, artist name, and so on 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, SD memory card and USB memory device 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, SD memory card and USB memory device with no more than two levels of folders.
- It is possible to play up to 255 folders or 999 files on one disc, SD memory card and USB memory device.



- The play order of the compact disc, SD memory card and USB memory device with the structure shown above 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

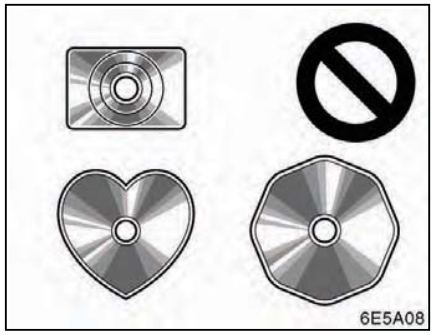
CD player uses an invisible laser beam which could cause hazardous radiation exposure if directed outside the unit. Be sure to operate the player correctly.

CD player

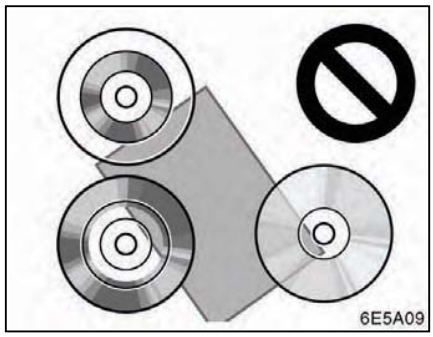
Audio CDs	

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

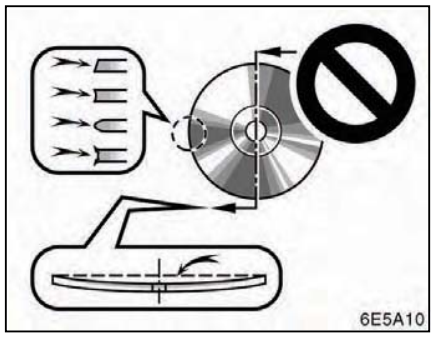
  SACDs
  dts CDs
  Copy-protected CDs



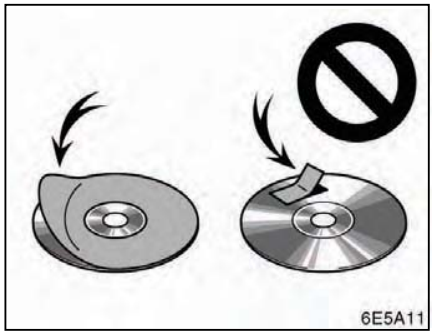
► **Special shaped discs**



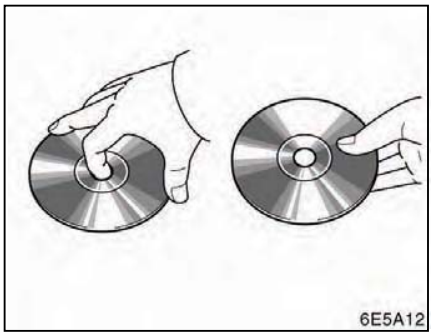
► **Transparent / translucent discs**



► **Low quality discs**



► **Labeled discs**

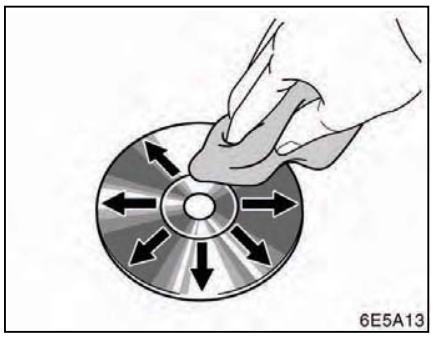


► **Correct** ► **Wrong**

NOTICE

- ***Do not use special shaped, transparent/translucent, low quality or labeled discs such as those shown in the illustrations. The use of such discs may damage the player, or it may be impossible to eject the disc.***
- ***This system is not designed for use of Dual Disc. Do not use Dual Disc because it may cause damage to the player.***

- 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 player when you are not using them. Store them in their plastic cases away from moisture, heat, and direct sunlight.



To clean a disc: Wipe it with a soft, lint-free cloth that has been dampened with water. Wipe in a straight line from the center to the edge of the disc (not in a circle). Do not use a conventional record cleaner or anti-static device.

Files in a USB memory device/SD memory card

If there are many files other than MP3 or WMA files in the USB memory device/SD memory card, it may take time to search for an MP3 or WMA file, adversely affecting the smooth operation of the device. (It is recommended that files other than .mp3 or .wma are not stored in these memory devices.)

USB memory devices with external power sources

Vehicles with smart entry and start system —

USB memory devices with external power sources such as USB audio devices may not be recognized correctly even if the “ENGINE START STOP” switch is turned to ACCESSORY or IGNITION ON mode. In this case, turn the “ENGINE START STOP” switch to ACCESSORY or IGNITION ON mode again, or remove the USB memory device and then plug it in again.

Vehicles without smart entry and start-system —

USB memory devices with external power sources such as USB audio devices may not be recognized correctly even if the engine switch is turned to the “ACC” or “ON” position. In this case, turn the engine switch to the “ACC” or “ON” position again, or remove the USB memory device and then plug it in again.

USB memory device

The table below shows the tested USB memory devices. Depending on its condition, the USB memory device may not operate properly.

Model	Manufacturer	Serial No.	Capacity
JetFlash V30 1GB	Transcend	505024-2172	1GB
JetFlash V10 8GB	Transcend	201061-2998	8GB
DataTraveler 1GB	Kingston	EC08610-3475122	1GB
DataTraveler 8GB	Kingston	CC12823-00039574	8GB
attache 2GB	PNY TECHNOLOGIES	8E80-0009	2GB
POCKETBIT MINI 1GB	SONY	07718BBCB	1GB
POCKETBIT MINI 512MB	SONY	08214BCCV	512MB
USB FLASH MEMORY 1GB	TOSHIBA	7441H910168NM8N	1GB
Swivel Flash Drive 8GB	Imation	8E80-0014	8GB
Swivel Flash Drive 256MB	Imation	8E80-0016	256MB
USB Drive 4GB	Verbatim	07070406604G088058AA	4GB
Cruzer Contour 8GB	San Disk	8E80-0020	8GB
CruzerMicro512MB (White)	San Disk	8E80-0021	512MB
USB Drive 2GB	Verbatim	07071706602G030669AA	2GB
USB 2GB	extrememory	8E80-0024	2GB
POCKETBIT 16GB	SONY	08529EDCB	16GB
USB Drive 2GB	CORSAIR	8E80-0027	8GB
JumpDrive Lightning 2GB	Lexar	8E80-0029	2GB
Flash Drive 1GB	EMTEC	8E80-0031	1GB

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

- Limitations of the navigation system ····248
- **Map database information and updates** ····250
  - Confirming the database version and SD memory card coverage area ····251
  - Changing the map SD memory card ····251
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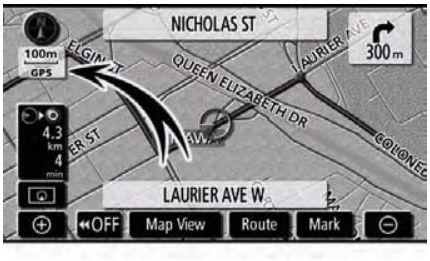
Limitations of the navigation system

This navigation system calculates the current vehicle position using satellite signals, various vehicle signals, map data, etc. However, the accurate position may not be shown depending on the satellite condition, road configuration, vehicle condition or other circumstances.

The Global Positioning System (GPS) developed and operated by the U.S. Department of Defense provides an accurate current vehicle position, normally using 4 or more satellites, and in some cases 3 satellites. The GPS system has a certain level of inaccuracy. While the navigation system will compensate for this most of the time, occasional positioning errors of up to 100 m (300 feet) can and should be expected. Generally, position errors will be corrected within a few seconds.



When your vehicle is receiving signals from the satellites, the “GPS” mark appears at the top left of the screen.

The GPS signal may be physically obstructed, leading to inaccurate vehicle position on the map display. Tunnels, tall buildings, trucks, or even the placement of objects on the instrument panel may obstruct the GPS signals.

The 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. We advise against the use of window tinting on vehicles equipped with navigation systems.

(a) Accurate current vehicle position may not be shown in the following cases:

- When driving on a small angled Y-shaped road.
- When driving on a winding road.
- When driving on a slippery road such as in sand, gravel, snow, etc.
- When driving on a long straight road.
- When freeway and surface streets run in parallel.
- After moving by ferry or vehicle carrier.
- When a long route is searched during high speed driving.
- When driving without setting the current position calibration correctly.
- After repeating a change of direction by going forward and backward, or turning on a turntable in the parking lot.
- When leaving a covered parking lot or parking garage.
- When a roof carrier is installed.
- When driving with 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 111.

(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 112.)

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 are correct.

Map database information and updates —

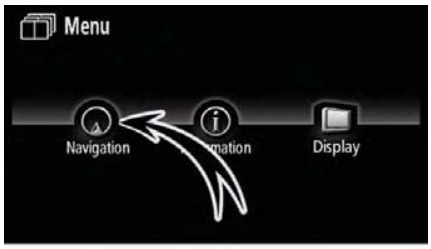
In order to provide you with as accurate map information as possible, we are always gathering information such as on road repairs and carrying out on-site investigations. However, the names of roads, streets, facilities, and their locations frequently change. In some places, construction on roads may 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 any your dealer for information about the availability and pricing of an update.

INFORMATION
Do not attempt to store audio or other data files in the map SD memory card.

— Confirming the database version and SD memory card coverage area

1. Push the “MENU” button.



2. Touch “Navigation”.

3. Touch “Map SD”.

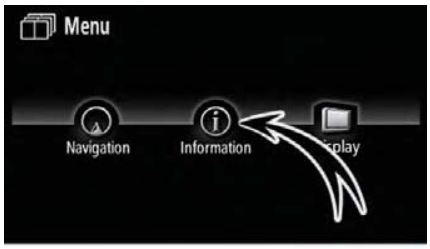
Confirm the database version on this screen.

To display the SD memory card coverage area, touch **“Covered Area”**. Confirm the covered area on the screen.

Contact any your Toyota dealer to find out if there is a more recent update available.

— Changing the map SD memory card

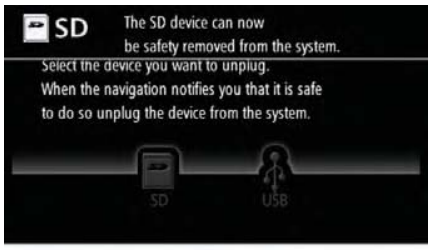
1. Push the “MENU” button.



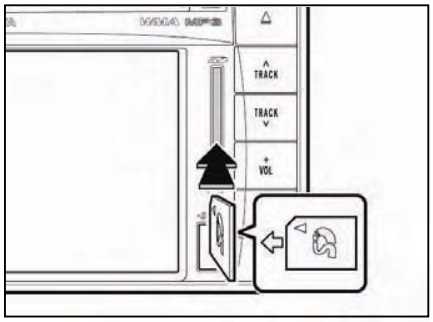
2. Touch “Information”.

3. Touch “Remove Device”.

4. Touch “SD”.



5. Push the map SD memory card lightly to remove it.



6. Insert the new map SD memory card.

The map database is normally updated once a year. Contact any your Toyota dealer for information about the availability and pricing of an update.

Specifications

<GPS antenna>

Dimensions	26.0 x 26.0 x 12.9 (mm)
Weight	14 (g)
Power supply voltage	4.0 to 5.0 (V)
Power consumption	10 to 30 (mA)
Usage temperature	-30 to +90 (°C)
Storage temperature	-40 to +110 (°C)

<Display>

Liquid crystal panel	5.8 wide
Screen dimensions	Active Area: 130.2 mm x 68.88 mm
Pixel count	400 (width) x 240 (height) x RGB
Drive system	TFT (thin membrane transistor) active matrix format
Usage temperature range	-30 to +85 (°C)
Storage temperature range	-40 to +85 (°C)

<Radio tuner>

Reception frequency	● AM 531 to 1,602 kHz ● FM 87.5 to 108.0 MHz
Noise limited sensitivity	● Less than AM 34 dBμ (S/N = 20 dB) ● Less than FM 14 dBμ (S/N = 30 dB)
Stereo separation	More than 25 dB

<CD>

Distortion	Less than 0.3%
Frequency characteristic	20 to 20,000 Hz
S/N ratio	More than 65 dB (1 kHz)
Stereo separation	More than 60 dB

<Common component>

Rated output	More than 11 W x 4 (test voltage 14.4V)
Maximum output	More than 20 W x 4 (test voltage 14.4V)
Suitable load impedance	4Ω (each channel)
Power consumption	● 1 W x 4 output time about 4 A ● About 15 A max
Exterior dimensions	205 mm (width), 104 mm (height), 161 mm (depth)
Weight	About 2.4 kg

- Please note that due to changes in specifications and external appearance, the content of this manual may not correspond exactly with the actual device.
- The number of parts and circuits may be changed to improve functionality without prior notice.

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