

SECTION I

BASIC FUNCTIONS

Basic information before operation

Touch switch operation 2

Inputting letters and numbers 2

Current position display 4

Screen scroll operation (one-touch scroll) 5

Map scale 8

Orientation of the map 9

Limitations of the navigation system 9

Map database information and updates 12



BASIC FUNCTIONS

Touch switch operation

This system is operated mainly by the switches on the screen. To prevent damage to the screen, lightly touch switches on the screen with your finger. When you touch a switch on the screen, a beep sounds.

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

INFORMATION

- If the system does not respond to a touch of a switch, move your finger away from the screen and then touch it again.
- You cannot operate dimmed switches.
- Wipe off fingerprints on the surface of the display using a glass cleaning cloth.
- The displayed image may become darker and moving images may be slightly distorted when the display is cold.

Inputting letters and numbers

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

• To input letters

To display the alphabet keys, touch the “A-Z” switch or the “A-Y” switch.



Enter letters by touching the alphabet keys directly.



: Touching this switch erases one letter. Holding this switch will continue to erase letters.

• To input numerals and symbols

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



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



: Touching this switch erases one letter. Holding this switch will continue to erase letters.



: Touching this switch displays other symbols.

● To display the list



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

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



INFORMATION

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

● List screen operation

When a list is displayed, you can scroll or page through the list by using the appropriate switch.



To shift to the next or previous page.






To scroll up or down one item at a time.



This expresses a displayed screen position.



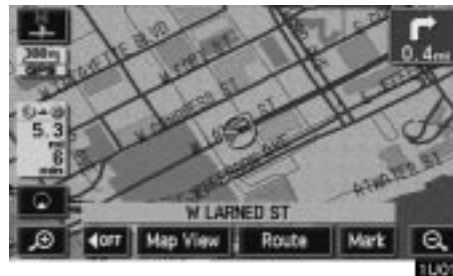
BASIC FUNCTIONS

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

Current position display

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

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



The current vehicle position mark appears in the center or bottom center of the map screen. You can return to this map screen showing your current position at any time from any screen by pushing the “**MAP**” button.

During driving, the current vehicle position mark is fixed in the screen and the map moves.

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

INFORMATION

- ***After the battery disconnection, or on a new vehicle, the current position may not be correct. As soon as the system receives signals from the GPS, the correct current position is displayed.***
- ***To correct the current position manually, see page 77.***

Screen scroll operation (one-touch scroll)

Touch any point on the map and that point moves to the center of the screen and is shown by the cursor mark.



If you wish to look at a point on the map which is different to your current vehicle position, you can bring the desired point to the center of the screen by using the scroll feature.

If you continue to hold your finger on the screen, the map will continue scrolling in that direction until you lift your finger.

After you scroll the screen, the map remains centered at the selected location until you activate another function. The current vehicle position mark will continue to move along your actual route and may move off the screen. When you push the “MAP” button, the current vehicle position mark returns to the center of the screen and the map moves as you proceed along the designated route.

INFORMATION

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

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

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



Touch the “Enter” button.

The screen changes and displays the map location of the selected destination and the route preference. (See “ — Entering destination” on page 38.)

If there is already a preset destination, touch the “Add to” button or the “Replace” button.

When there is already a preset destination, using the “Add to” button to set an additional destination, will set the new one as the first point of arrival.

BASIC FUNCTIONS

- To register the cursor position as a memory point


Memory point registration enables easy access to a specific point.



Touch the “Mark” switch.

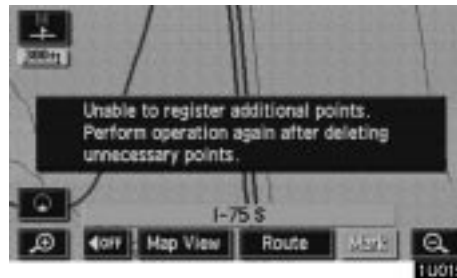
When you touch the “Mark” switch, the following screen appears for a few seconds, and then the map screen returns.



The registered point is shown by  on the map.

To change the icon or name, etc., see page 68.

You can register up to 106 memory points. If you attempt to register more than 106, a message appears for confirmation.



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



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

POI INFORMATION

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



Touch the “Info.” switch.



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

If you touch the “Enter” switch, the position of cursor is set as a destination.

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

When there is already a preset destination, using the “Add to” switch to set an additional destination, will set the new one as the first point of arrival.

To register this POI as a memory point, touch the “Mark” switch. (For details, see page 66.)

INFORMATION

The desired Point of Interest can be displayed on the map screen. (For details, see page 49.)

MEMORY POINT INFORMATION

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




Touch the “Info.” switch.




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

If you touch the “Enter” switch, the position of cursor is set as a destination.

BASIC FUNCTIONS



If there is already a set destination, the “**Add to** 



When there is already a preset destination, using the “**Add to** 

To edit a memory point, touch the “**Edit**” switch. (For details, see page 68.)

Map scale







Touch the  or  switch to change the scale of the map display. The scale bar and indicator at the bottom of the screen indicates the map scale menu. The scale ranges 150 feet (50 m) to 250 miles (400 km).

Touch the  or  switch until the scale bar changes normally. If you continue to touch on the switch, the scale bar changes smoothly.

You can change the scale of the map display by touching the scale bar directly. It is not available during driving.

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

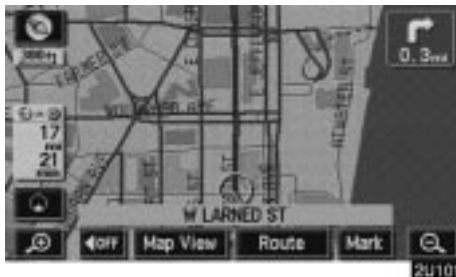
INFORMATION

When the map scale is at the maximum range of 250 miles (400 km),  is not shown. When the map scale is at the minimum range of 150 feet (50 m),  is not shown. However, in the area where the foot print map is contained, when the map scale is changed to 150 feet (50 m), the  switch changes to the  switch.

Orientation of the map



North-up screen



Heading-up screen

You can change the orientation of the map from north-up to heading-up by touching the orientation symbol at the top left of the screen.



North-up symbol

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



Heading-up symbol

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

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 using 3 to 4 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 up to 300 feet (100 m) can and should be expected. Generally, position errors will be corrected within a few seconds.

BASIC FUNCTIONS



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 installation of window tinting may also obstruct the GPS signals. Most window tinting contains some metallic content that will interfere with the GPS signal reception. We advise against the use of window tinting on vehicles equipped with navigation systems.

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.

(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 77.

(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, there is no route guidance.
- When passing through the intersection, 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 reason.
- The road and map data stored in your navigation system may not be complete or may not be the latest version.

After replacing the tire, implement the operation described in the “• Tire change calibration”. (For details, see page 78.)

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

BASIC FUNCTIONS

Map database information and updates

This system uses the maps of DENSO.

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BASIC FUNCTIONS

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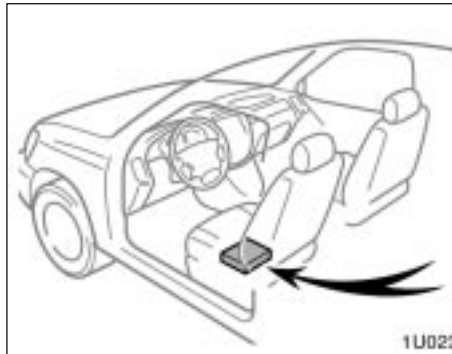
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BASIC FUNCTIONS

There are two types of areas available for route guidance. In one type of area, primarily around metropolitan centers, detailed route guidance is available for the entire area. In the other type of area, all roads are displayed on the map but route guidance is limited. The navigation route might lack precision because the data (no right turns, one-way traffic, etc.) is not complete. It is still possible to reach the destination by following the arrow direction and distance as shown on the bottom left of the screen. The arrow points in the direction of the destination. The distance shown is as measured in a straight line from the current vehicle position to the destination area.

In order to provide you with as accurate map information as possible, we are always gathering information such as road repairs and doing site investigation. However, the names of roads, streets, facilities, and their locations are often changed. In some places, construction on roads may be in progress. For that reason, information on some areas in this system might be different from the actual location.



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

- To confirm the database version and disc coverage area

1. Push the “MENU” button.



2. Touch the “Map DVD” switch.



Make sure the version of the database on this screen. (The database version on the screen above may be different from the actual screen.)

To display the disc coverage area, touch the **“Covered Area”** switch. Confirm the covered area on the screen.

Contact your dealer to find out if there is a more recent update released.

BASIC FUNCTIONS
