■ FUNCTION

1. General

The main functions of the multi-display are shown below.

Main Function		Outline
Navigation Screen (See page BE-104)		Through the use of the GPS (Global Positioning System) and map data which is stored on a DVD, the navigation system analyzes the position of the vehicle and indicates that position on the map that is displayed on this screen.
Audio/ Video System		Displays the following three operations: • Radio Operation • DVD Changer Operation (Different optional setting)
Air Conditioning		The operation and control of the air conditioning system can be effected through the use of the automatic air conditioning display of the multi-display and the touch switch that appears on the display.
Parking Assist Monitor System		Displays the rear view of the vehicle has been captured by the television camera mounted on the back door when the shift lever is moved to the reverse position. For details, see page BE-121.
Clearance Sonar System (Different optional setting)		Detects obstacles and displays the information on the multi-display to inform the driver. For details, see page BE-112.
Others	Hands-Free (See page BE-98)	When a Bluetooth-compatible cellular telephone is registered to the multi-display, the user can make and receive calls or talk hands-free on the cellular telephone by operating the switches on the screen or the steering pad.
	Maintenance Information	Can be used to inform the driver of inspection or replacement timing of the following items based on the calendar function and vehicle speed signal. **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 **Service:** Scheduled maintenance **Air Filter:** Replace air filter **Personal:** New information items can be created separately from provided ones.
	Calendar with Memo	It is possible to enter memos for particular dates on the calendar.
	Speech Command System	Operates the navigation, audio, and air conditioning systems based on voice commands. However, only English, German* and French* can be recognized by this function.
	Help Screen	Help screen can see the command list and operation guide on it.
	Screen Adjustment	The brightness or contrast of the screen can be adjusted to suit the brightness of surroundings.

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Main Function		Outline
Others	Screen Setting	The following screen settings are available: **Automatic transition:** It enables automatic return to the navigation screen from the audio screen or A/C screen. **Switch Color:** Color of touch-screen button can selected.
	Beep Setting	Beep sound off.
	Select Language	The language used for the touch-screen buttons, pop-up messages and voice guidance can be changed. English, German*, French*, Dutch*, Italian*, Danish*, Swedish*, Spanish*, Portuguese* and Norwegian* are available.
	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 • Phonebook data • Dialed numbers and received calls • Speed dial • Bluetooth phone data • Security code
Diagnosis		This contains the following four items: • Service Check Menu • Display Check • Navigation Check • Camera Check • Bluetooth TEL Check

*: Only for European models

2. Navigation Screen

The navigation ECU calculates the present position, direction of travel, and distance the vehicle has driven based on the following information sources. This information is displayed on the multi-display.

- DVD map data
- GPS (Global Positioning System) Satellites
- Built-in Gyro Sensor
- Vehicle Speed Signal

The functions of the navigation screen display are shown below.

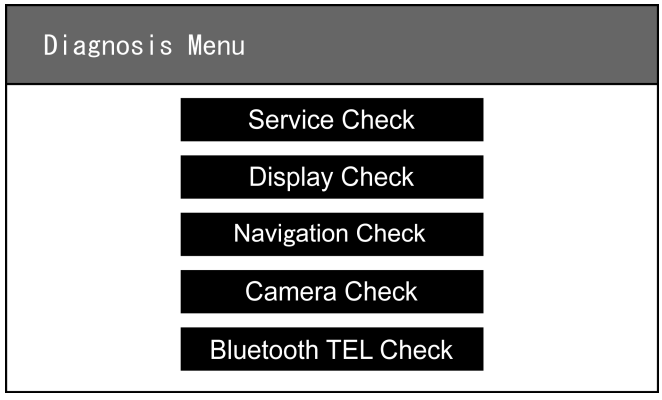
Item		Function
Map Display	Linear Touch Scroll	Enables smooth scrolling by connecting the touch points on the screen.
	On-route Scroll	Scrolls the center of the cursor forward and reverse constantly along the route.
	Heading Up	• Displays the map so that the direction of the route progression heading faces up during route guidance. • Displays a map in the direction of travel of the vehicle in an enlarged form.
	Step-less Scale Display	Changes the scale of the map from the basic 13 steps to an even finer display.
	Direct Scale Change	Directly selects and displays the map scale.
	Multi-step Scale Display	Changes and displays the map scale in 13 stages.
	Split-view Display	Displays different modes on a screen that is split into two views.
	Points-of-Interest Display	Displays selected types of points of interest as marks on the map.
	Taillight-interlocked Map Color Change	Changes the color on the map screen that is displayed when the taillights are turned ON.
	Road Number Sign Board Display	Displays the road number on the map.
	Compass Mode Screen	Displays the direction of travel and detailed data of the present location.
	Map Coverage Information Display	Displays the map area that is recorded on DVD.
	Street Name Indication on Scrolled Map	Displays the street name and the city name even when the map screen is being scrolled.
Destination Search	Last Destination Memory	Stores 20 locations of coordinates, names and times that have been set as destinations in the past.
	Hybrid Points-of-interest Search	Narrows the search by names of the points-of-interest, category, and areas.
	Points-of-interest Pinpoint Display	Pinpoints and displays the position of the point-of-interest.
	House Number Search	Searches for a house number.
	Special Memory Point	Sets a pre-registered point as a destination point while driving.
	Nearest Point-of-interest Search List Display	Searches nearest points-of-interest and displays a list.

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Item		Function
Destination Search	Intersection Search	By specifying two streets, the point at which they intersection is set as the destination point.
	Emergency Search	Performs a specific search for hospitals, police stations and dealers.
	Motorway Entrance or Exit Search	Searches for the destination by the name of the street that connects to a motorway entrance or exit.
	Coordinate Search	Searches for a destination by latitude and longitude.
	Telephone Number Search	Searches for a facility by its telephone number.
	POI, brand icon indication	Displays an icon for point of interest.
Route Search	Multiple Destination Setting	Sets multiple destinations. It can also rearrange the sequence of the destinations.
	Route Search	Searches for multiple routes.
	Search Condition Designation	Searches for the recommended, shortest, and other routes.
	Regulated Road Consideration	Performs search which considers regulated roads.
	Avoidance Area	Searches for a route that avoids a designated area.
	Street Address Search	The user can set up the destination by voice input of the city or street name.
	Motorway Mode Screen	Displays information on facilities in the vicinity of the motorway exits and entrances.
Guidance	Destination Direction Arrow Display	Function to display the direction from the current position to the destination in case of being off the route during the guidance.
	Off-Route Arrow Display	Function to display the route ahead on the route guidance line in case of being off the route during the guidance.
	Rotary Guidance	To guide with a special voice phrase in the rotary.
	Right or Left Turn Guidance	Voice guidance to instruct the direction of travel to be taken.
	Motorway Direction of Travel Guidance	Voice guidance to instruct the direction of travel to take on the motorway.
	Distance Display Destination	Displays the distance from the present location to the destination.
	Motorway Branch Type Specimen Guidance	Type specimen for guidance to a motorway branch.
	Intersection Zoom-in Display	Zoom-in display when approaching an intersection.
	Estimated Arrival Time Display	Displays estimated arrival time to a user.
	Route Trace Display	Displays route trace.
	Turn List Display	Displays a turn list on the right side of the two-screen display when approaching an intersection.
	Motorway Mode Screen	Displays the distance to the next junction and exit, or POIs in the vicinity of the motorway exit.
Others	Voice Recognition	Recognize pre-programmed system commands voiced by the user to operate the navigation system.
	Help	This function explains a user what operation can be performed when a “?” on the display is pushed.

3. Diagnosis

The following check menus are included in the diagnosis screen.



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Check Mode	Detail
Service Check Menu	Performs a system check and gathers DTC (Diagnostic Trouble Codes) in memory, and, based on their results, shows the past and present inspection results of the connected devices.
Display Check	Shows a screen for checking a specific portion of the display.
Navigation Check	Shows a screen for checking a specific portion of navigation ECU.
Camera Check	Shows a screen for checking a specific portion of television camera.
Bluetooth TEL Check	Shows a screen for setting the voice quality for a Bluetooth-enabled hands-free phone system.

For details on the procedure required to enter the diagnosis menu screen, see the Land Cruiser (Station Wagon) Repair Manual (Pub. No. RM0810E).