

## 4. Construction and Operation

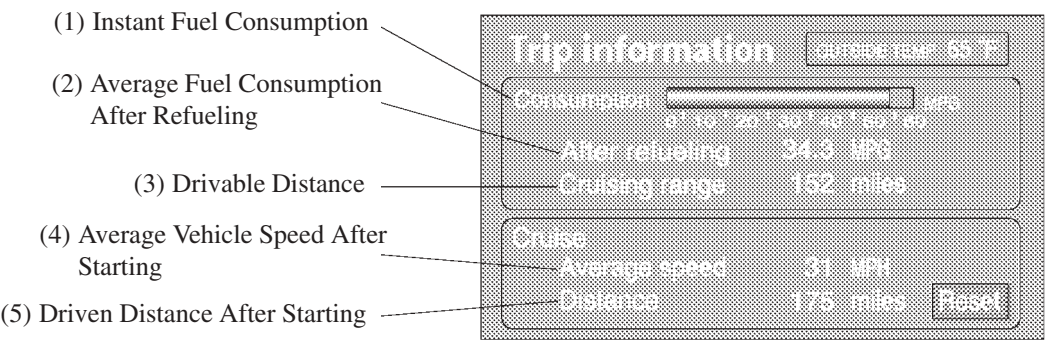
### Multi Display

#### 1) General

Listed below are the main functions of the multi display.

Function	Outline
Audio Screen Display	<ul style="list-style-type: none"> <li>● Status of audio equipment and audio operation screen indication.</li> <li>● Sound quality adjustment screen indication.</li> </ul>
On-screen Display	<ul style="list-style-type: none"> <li>● Display the operating condition of the air conditioner.</li> <li>● Display the outside temperature.</li> </ul>
Adjustment Screen Display	Image quality adjustment screen indication.
Trip Information Display (See page 250)	<ul style="list-style-type: none"> <li>● Instant Fuel Consumption.</li> <li>● Average Fuel Consumption after refueling.</li> <li>● Drivable Distance.</li> <li>● Average vehicle speed after starting.</li> <li>● Driven distance after starting.</li> </ul>
Navigation Screen Display (See page 251)	<ul style="list-style-type: none"> <li>● Language selector display.</li> <li>● Enlargement/reduction, rotation and movement of map.</li> <li>● Indication of current position and direction of travel.</li> <li>● Correction of current position.</li> <li>● Setting change and indication of route.</li> <li>● Voice guidance.</li> </ul> <p>There are many additional functions.</p>
Diagnosis Screen Display (See page 252)	<ul style="list-style-type: none"> <li>● Service Check Menu.</li> <li>● Display Check.</li> <li>● Navigation Check.</li> </ul>

2) Trip Information Display



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Item		Outline
(1)	Instant Fuel Consumption	<ul style="list-style-type: none"><li>● Displays the value that has been calculated by the meter ECU, which is based on the driven distance and the fuel consumption volume (fuel injection signal from No. 1 injector), provided that the ignition switch is turned ON.</li><li>● The display updates every 2 seconds.</li></ul>
(2)	Average Fuel Consumption After Refueling	<ul style="list-style-type: none"><li>● Displays the value that has been calculated by the meter ECU, which is based on the driven distance after refueling and the fuel consumption volume (fuel injection signal from No. 1 injector).</li><li>● The meter ECU determines that the vehicle has been refueled in accordance with the signal from the fuel sender gauge.</li><li>● The display updates every 10 seconds.</li></ul>
(3)	Drivable Distance	<ul style="list-style-type: none"><li>● Displays the value that has been calculated by the meter ECU, which is based on the fuel consumption data that the meter ECU continuously monitors and stores in its memory and the residual fuel volume data, provided that the ignition switch is turned ON.</li><li>● The display updates every mile or kilometer.</li></ul>
(4)	Average Vehicle Speed After Starting	<ul style="list-style-type: none"><li>● Displays the value that has been calculated by the meter ECU, which is based on the elapsed time and driven distance after the ignition switch has been turned ON or the RESET button has been pressed 0.8 seconds or longer.</li><li>● The display updates every 10 seconds.</li></ul>
(5)	Driven Distance After Starting	<ul style="list-style-type: none"><li>● Displays the driven distance that is output by the meter ECU after the ignition switch has been turned ON or the RESET button has been pressed 0.8 seconds or longer.</li><li>● The display updates every mile or kilometer.</li></ul>

### 3) Navigation Screen Display

Based on the map data on the DVD, signal from the GPS satellites, signals from the built-in gyro sensor, and signals from the vehicle's speed sensor, the vehicle's present position, direction of travel, and driven distance are calculated and displayed on the navigation display. This screen has the display functions listed 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 head up during route guidance.
	Map Color Change	Automatically changes the map display color by season.
	Front Wide	Displays a map in the direction of travel of the vehicle in an enlarged form. (Heading up only)
	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 marks on the map.
	Taillight-interlocked Map Color Change	Changes the displayed color on the map screen when the taillights are turned ON.
	Road Number Sign Board Display	Displays the road number on the map.
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.
	Preset Destinations	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.
	Intersection Search	By specifying two streets, the point at which they intersection is set as the destination point.
	Motorway Entrance/Exit Search	Searches for the destination by the name of the street that connects to a motorway entrance/exit.
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 while considering regulated roads.
	Avoidance Area	Avoids a designated area and searches a route.

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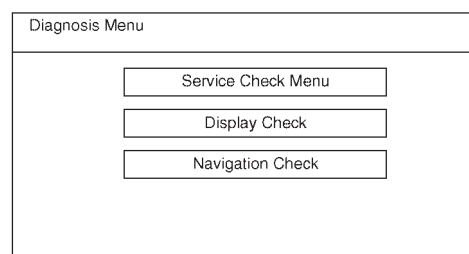
Item		Function
Guidance	Destination Direction Arrow Display	Function to display the direction from the current position to the destination in case of being off the route during the guidance.
	Off-Route Arrow Display	Function to display the route ahead on the route guidance line in case of being off the 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.
	Turn List Display	Displays a turn list on the right side of the two-screen display when approaching an intersection.
Others	Language Selector	The language of the text displayed on the navigation screen and of the voice guidance can be selected from 8 languages.
	Calendar	Enables calendar display until 2020 and memo registration.

#### 4) Diagnosis Screen Display

The navigation display is equipped with a self-diagnosis system and can display the diagnosis menus shown on the right.

The diagnosis menu contains the following three items.

- Service Check Menu
- Display Check
- Navigation Check



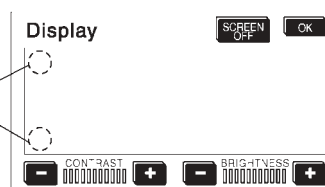
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#### Service Tip

The diagnosis menu screen can be displayed according to the procedure given below.

- 1) Vehicle speed should be 0 km/h (0 mph).
- 2) Apply the parking brake.
- 3) Turn the ignition switch to ACC or ON.
- 4) Push the DISPLAY button.
- 5) Activate the screen adjustment screen.
- 6) Alternately touch the upper and lower bottom parts of the left end of the screen 3 times.

Concealed Touch Switch



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For details, refer to the Land Cruiser Chassis and Body Repair Manual Supplement (Pub. No. RM970E).