■CONSTRUCTION AND OPERATION

1. General

Items listed below are the main functions of the multi display.

▭ : New

Function		Outline
On-screen Display		• Displays the audio status at the upper area of the screen when it is showing a display other than the audio screen display. • Constantly shows a warning indicator on the screen when a warning is issued.
Navigation Screen Display		Through the use of the GPS and map data in a DVD, the navigation system analyzes the position of the vehicle and indicates that position on the map that is displayed on this screen.
Information Display	Energy Monitor Screen Display	The following pieces of information are displayed in accordance with the signals from the HV ECU (and meter ECU). • Energy Transmission Direction • HV Battery State of Charge Display • Outside Temp. Display • Instant Fuel Consumption
	Fuel Consumption Screen Display	The following pieces of information are displayed in accordance with the signals from the meter ECU (and HV ECU). • Instant Fuel Consumption • Average Fuel Consumption After Refueling • Driven Distance After Refueling • Regenerated Energy Display • Outside Temp. Display
Warning Screen Display		Forces a warning screen to appear when the master warning light of the combination meter illuminates.
Audio Screen Display		Status of audio equipment and audio operation screen indication.
Air Conditioner Screen Display		• Display the outside temperature. • The operation and control of the air conditioner 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.
Telephone Operation Screen Display		When a Bluetooth-compatible cellular telephone is registered on 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.
Language Selector Screen Display		The language of the text displayed on the multi display and of the voice guidance can be selected from 8 languages: English, Germany, French, Dutch, Italian, Danish, Swedish and Spanish.
Adjustment Screen Display		• Changes screen color (green, blue, gray, and beige). • Changes RDS-TMC settings (only on European model).
		Image quality adjustment screen indication.
Diagnosis Screen Display		This contains the following 3 items: • Service Check Menu. • Display Check. • Navigation Check.

2. 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.

▭ : New

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.
	▭ 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.
	▭ RDS-TMC Information Indication	▭ Receives FM multiplex broadcasts and displays traffic information on the map screen. (Only for European Model)
	▭ Whole Route Function	▭ Changes the display scale of the map screen and displays the whole route. (Only for European Model)
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.
	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.
	Freeway Entrance / Exit Search	Searches for the destination by the name of the street that connects to a freeway entrance / exit.
	▭ Coordinate Search	▭ Searches a destination by latitude and longtitude.
	▭ Telephone Number Search	▭ Searches a facility by its telephone number. (Only for European Model)

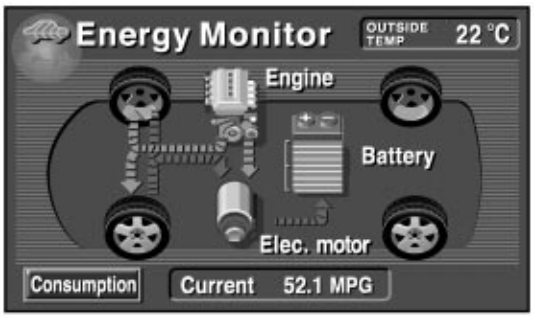
(Continued)

Item		Function
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.
	Route Search Considering Traffic Information	Searches routes avoiding congested areas based on traffic information provided by RDS-TMC (only on European model).
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.
	Freeway Direction of Travel Guidance	Voice guidance to instruct the direction of travel to take on the freeway.
	Distance Display Destination	Displays the distance from the present location to the destination.
	Freeway Branch Type Specimen Guidance	Type specimen for guidance to a freeway 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.
	Freeway mode screen	Displays the distance to the next junction and exit, or POIs in the vicinity of the freeway exit.
	Border Guidance	Displays a border mark when crossing a border. (Only for European Model)
Others	Voice Recognition	• Recognizes the voice of the driver, follows the driver's instructions, and operates the navigation system. (Only for European Model) • It recognizes voice commands in two languages: English and German.
	RDS-TMC Voice Guidance	In case there are some traffic events on guidance route, system guides them with voice. (Only for European Model)
	RDS-TMC Text Information	• System can show text information. (Only for European Model) • While vehicle driving, this function is not available.
	Calendar	Enables calendar display until 2020 and memo registration.

3. Information Display

Energy Monitor Screen Display

The energy monitor screen is displayed as illustrated below. This screen has the display functions listed below.

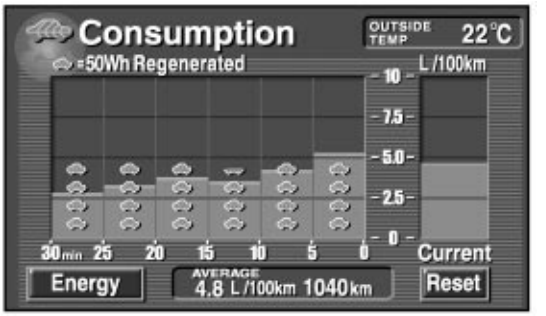


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Item	Outline
Outside Temp. Display	Displays the outside temperature that is output by the air conditioning ECU.
Energy Monitor Display	• Energy monitor display indicates the energy transmission direction for checking the current drive method (engine, motor or both), the power generation status by the engine and status of regenerative energy use. • The SOC (State of Charge) of the battery can be checked on the meter with an 8-stage display, which is provided in the battery illustration. • Displays the energy monitor status that has been calculated by the HV ECU. • The energy monitor status is calculated by the HV ECU.
Instant Fuel Consumption	• 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 power switch is turned ON. • The display updates every 0.5 seconds.

Fuel Consumption Screen Display

The fuel consumption screen is displayed as illustrated below. This screen has the display functions listed below.

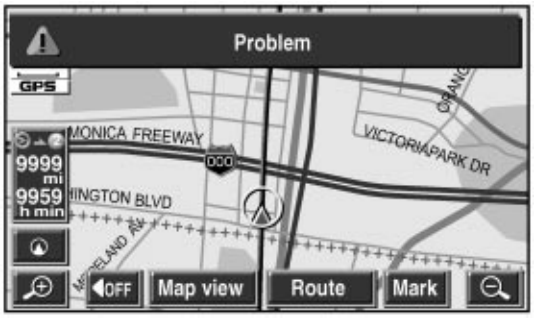


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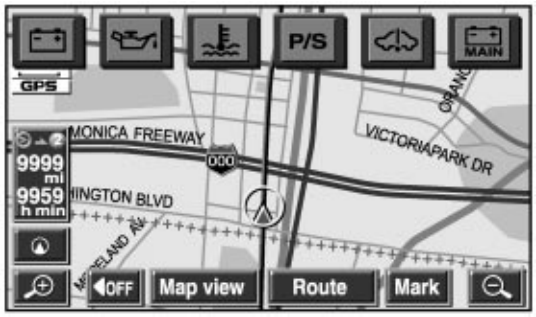
Item	Outline
Outside Temp. Display	Displays the outside temperature that is output by the air conditioning ECU.
Instant Fuel Consumption	• Displays the value that has been calculated by the meter ECU, which is based on the driven distance and the fuel consumption volume (fuel injection signal from No. 1 injector), provided that the power switch is turned ON. • The meter ECU displays the instant fuel consumption value on a bar graph. • The display updates every 0.5 seconds.
Average Fuel Consumption After Refueling	• 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). • The meter ECU determines that the vehicle has been refueled in accordance with the signal from the fuel sender gauge, or the Reset button has been pressed. • The display updates every 10 seconds.
Driven Distance After Refueling	• Displays the driven distance that is output by the meter ECU after the refueling or the Reset button has been pressed. • The meter ECU determines that the vehicle has been refueled in accordance with the signal from the fuel sender gauge. • The display updates every mile.
Recovered Energy	• The recovered energy over the past 5 minutes is indicated by symbols. • The recovered energy status is calculated by the HV ECU.

4. Warning Screen Display

- If an abnormal condition occurs in the vehicle system or the fuel level drops, a warning screen appears, even if another screen is currently being displayed. The warning screen automatically indicates a warning to alert the driver of an abnormality in the system. At this time, in the combination meter, the meter ECU illuminates the master warning light or blinks the fuel gauge.
- The warning screen flashes for 5 seconds the mark of the system in which the abnormality occurred. Then, it illuminates and remains displayed until the screen is switched or the system is reinstated to normal.
- If the screen switches to another screen while displaying a warning indication, the mark of the system in which the abnormality occurred is displayed at the top area of the screen. The displayed mark disappears when the system is reinstated to normal.

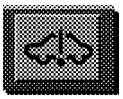
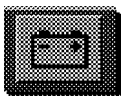
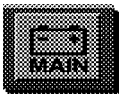
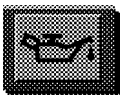
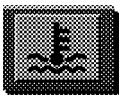


Warning Screen Display 255BE42



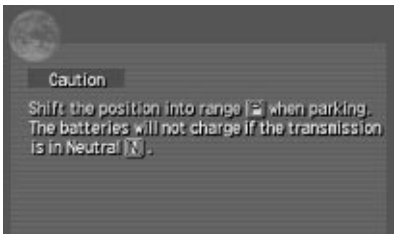
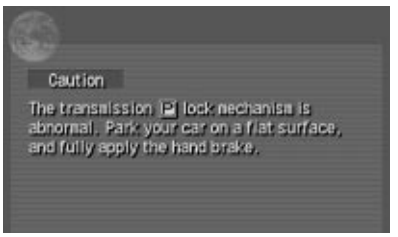
On-screen Display 256BE21

▶ List of Warning Screen Items ◀

Mark	Warning Display Item	Combination Meter	Mark	Warning Display Item	Combination Meter
 255BE81	Hybrid System Abnormal	Master Warning Light	 255BE83	Discharge Warning	Master Warning Light
 255BE80	HV Battery Warning	Master Warning Light	 255BE78	Oil Pressure Warning	Master Warning Light
 255BE79	High Engine Coolant Temperature Warning	Master Warning Light	 255BE82	EPS Warning	Master Warning Light

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- When any of the conditions described below is present, the message prompt as shown appears in the multi display, accompanied by the illumination of the master warning light and the continuous sounding of the buzzer.

Message Prompt	Condition
 255BE120	**Shift Position Warning** While the hybrid system is OFF and the shift position is in a position other than P, the driver's door is opened.
 255BE121	**N and D Range Warning** • The READY light is illuminated, the shift position is in the N position, and the HV battery is discharged. • The READY light is illuminated, the shift position is in the N, B or D position, and the driver's door is open.
 256BE51	**Transmission Control ECU Warning** When there is a malfunction in the transmission control ECU.

5. Telephone Operation Screen Display

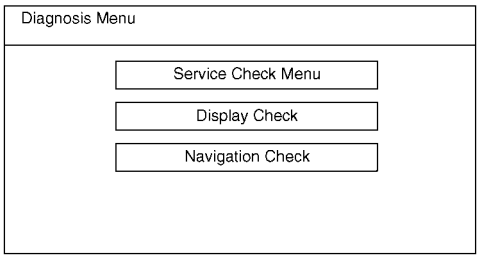
- A hands-free Bluetooth system has been provided on the multi display as an option. This system enables the user to make and receive calls or talk hands-free on the cellular telephone by operating the switches on the screen display or on the steering pad.
- The hands-free Bluetooth system consists of the multi display, a microphone located in the overhead console, and steering pad switches.
- Bluetooth is a high-speed wireless data communication system that uses the 2.4 GHz frequency band prescribed by the Bluetooth SIG (Special Interest Group), with communication at a speed of 1 Mbps. Accordingly, if the user merely brings a Bluetooth-compatible telephone that is registered in the multi display into the vehicle, wireless data communication will be established between the telephone and the multi display. As a result, the user will be able to utilize the hands-free function, without needing to connect the telephone to a hands-free connecting device as in the past.
- This screen has the display functions listed below.

Item	Outline
Incoming Call Screen	If a call comes in to the telephone that is registered on the multi display, this screen appears. The user can receive the call by operating the incoming call button that appears on the screen or the incoming switch on the steering pad.
Call Dialing Screen	• The user can press the numeric key pad that appears on this screen to enter the telephone number and press the call button that appears on this screen or the call switch on the steering pad to make a call. • This function is disabled when the vehicle is in motion.
Telephone Directory Screen	• This screen shows telephone directory data stored in the multi display memory, which has a maximum capacity of 500 × 2 numbers. The user can make a call by selecting a telephone number from this directory and pressing the call switch on this screen or the call switch on the steering pad. • This function is disabled when the vehicle is in motion.
Redial Screen	• This screen shows redial data stored in the multi display memory, which has a maximum capacity of 5 numbers. The user can make a call by selecting a telephone number from the redial list and pressing the call switch on this screen or the call switch on the steering pad. • This function is disabled when the vehicle is in motion.
Call History Screen	• This screen shows incoming call history data stored in the multi display memory, which has a maximum capacity of 5 numbers. The user can make a call by selecting a telephone number from this list and pressing the call switch on this screen or the call switch on the steering pad. • This function is disabled when the vehicle is in motion.
One-Touch Call Screen	• The user can select telephone numbers from the telephone directory or the incoming call history data and record them on this screen as one-touch call data, which has a maximum capacity of 17 numbers. The most recent redial data (one number) is always recorded as part of the one-touch call data. • The user can make a call by selecting a telephone number from the list of one-touch call numbers and pressing the call switch on this screen or the call switch on the steering pad.
Point-of-Interest Info Screen	The user can make a call by selecting a telephone number that appears on the point-of-interest screen of the navigation system and pressing the call switch on this screen or the call switch on the steering pad.
Hands-Free Setup Screen	• The data from the telephone directory in the user's cellular telephone can be transferred to the telephone directory in the multi display. A maximum of 500 × 2 numbers can be transferred. • By registering the pass-key of the user's Bluetooth-compatible cellular telephone on this screen, the user can make and receive calls to the registered telephone numbers or talk hands-free by operating the switches on the multi display or the switches on the steering pad. • A maximum of 4 Bluetooth-compatible cellular telephones can be registered. However, only one cellular telephone can be used at a time.

6. 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

a) Service Check Menu
b) Display Check
c) Navigation Check



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See the Prius Repair Manual (Pub. No. RM1076E) for detail of Diagnosis Screen Start-up procedure.