■ FUNCTION

1. General

The main functions of the navigation system are shown below:

Function		Outline
Navigation Screen		Through the use of the GPS and map data stored on a HDD or DVD, the navigation system analyzes the position of the vehicle and indicates that position on the map displayed on this screen.
Audio System		Displays the following operations: ● Radio operation ● CD operation ● AUX operation ● Bluetooth audio operation ● HDD operation*1
Rear View Monitor System		Displays the rear view of the vehicle captured by the television camera when the shift lever is in R.
Bluetooth Hands-free System		When a Bluetooth-compatible cellular telephone is registered to the navigation receiver assembly, the user can make and receive calls and 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 ● Tire: Replace tires ● Battery: Replace battery ● Brake pad: Replace brake linings ● Wiper: 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.
Screen Adjustment		● The brightness or contrast of the screen can be adjusted to suit the brightness of surroundings. ● When the taillights are turned on, the user can select whether to display the map in the day mode or night mode.
Help Screen		Displays the command list and operation guide.
Speech Command		Operates the navigation system by voice recognition.
Calendar with Memo		The user can enter memos for particular dates on the calendar.
Settings	Select Language for Guidance	The user can select the language used for the touch-screen buttons, pop-up messages and voice guidance.
	Select Language for Voice Recognition	The user can select the language used for the voice recognition.
	Beep Setting	The user can select whether to turn the beep sound on or off.
	Screen Setting	● Automatic transition: Enables automatic return to the navigation screen from the audio screen. ● Switch color: The user can select the color of the touch-screen buttons.*2 ● Line color: The user can select the line color.*1
	Keyboard Layout Setting	The user can select the keyboard layout.

*1: Models with HDD navigation receiver assembly
*2: Models with DVD navigation receiver assembly

(Continued)

Function		Outline
Settings	Unit of Measurement Setting	The user can select the distance unit.
	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 guidance ● Route trace ● Telephone setting ● Phone book data ● Dialed numbers and received calls ● Speed dial ● Bluetooth phone data ● Security code ● Audio setting ● Bluetooth audio setting ● Tracks recorded in the hard disc drive*1 ● User selection settings*2
	Clock Setting	● Time zone: The user can select a time zone. ● Daylight saving time: The user can select whether or not to use the daylight saving time.
	Voice Setting	● Voice volume: The user can select voice guidance volume. ● Voice recognition guidance: The user can turn the voice recognition guidance on or off.*1 ● Voice guidance in all modes: The user can turn the voice guidance when audio system is used on or off.*1 ● Auto voice guidance: The user can turn the voice guidance during route guidance on or off.*1 ● Adaptive volume control: The user can turn the adaptive volume control on or off.*2
	Navigation Setting	● Memory point: The user can register, edit or delete a memory point. ● Home: The user can register or delete the home. ● Area to avoid: The user can register, edit or delete an area to avoid. ● Previous points: The user can delete a previous destination. ● Average speed: The user can set the speed that is used for the calculation of the estimated travel time and the estimated arrival time. ● Screen layout function: The user can display or hide each touch screen button and current street name on the map display. ● Points Of Interest (POI) category change: The user can change the POI category to be displayed on the map display. ● 3D landmark: The user can select whether or not to display the 3D landmark. ● Traffic notification: The user can select whether or not to display traffic restrictions and seasonally restricted roads. ● Pop-up message: The user can select whether or not to display pop-up messages. ● Current position calibration: The user can manually adjust the current vehicle position mark. ● Tire change calibration: The user can adjust the miscalculation of the distance caused by tire replacement.

*1: Models with HDD navigation receiver assembly
*2: Models with DVD navigation receiver assembly

(Continued)

Function		Outline
Settings	Vehicle Setting	● Maintenance information setting: The user can select whether or not to use maintenance information. In addition, the user can delete or reset all the conditions. ● Dealer setting: The user can register a dealer.
	Traffic Setting	● Voice guidance: The user can turn the voice guidance for traffic information on or off. ● Show traffic info: The user can select the traffic information icons to display on the map display. ● Auto avoid traffic: The user can select the detour function from automatic search, manual search or no search. ● Select traffic station: The user can select automatic search or manual search.
	Select User*2	Enables the setting of up to 3 users. Also enables the registration of individual settings for the respective users.
Service Check Screen		This screen appears to check the functions.

*1: Models with HDD navigation receiver assembly
*2: Models with DVD navigation receiver assembly

2. Navigation Screen Function

The navigation receiver assembly calculates the present position, direction of travel, and distance the vehicle has driven. This information is shown on the display.

The navigation screen consists of the following functions:

Item		Function
Map Display	Current Position	When the navigation system starts, the current position is displayed first.
	One-touch Scroll	Enables smooth scrolling by connecting the touch points on the screen.
	Information of Icons	Displays the information of the icons when the user places the cursor over the icons on the map and presses on the info button.
	2D Map/3D Map*1	Switches the screen between 2D and 3D views.
	Split-view Display	Displays different modes on a screen that is split into 2 views. ● This function also supports the 3D view.*1
	Compass Mode	Displays the direction of travel and detailed data of the present location.
	Multi-step Scale Change	Changes the map scale in steps, in a range between 50 m (50 yards) and 500 km (300 miles).
	Stepless Scale Display	The user can press and hold the zoom in or zoom out button to change the map scale smoothly.
	Direct Scale Change	The user can touch the map scale bar directly to change the map scale.
	North-up Screen/Heading-up Screen	The user can select the north-up screen or the heading-up screen as desired.
	Taillight-interlocked Map Color Change	Changes the color on the map screen that is displayed when the taillights are turned on.
	Information on Map Display	The map display shows various pieces of information in accordance with the functions that are used: ● Road sign board ● Town name ● Street name ● Icons and so on

*1: Models with HDD navigation receiver assembly
*2: Models with DVD navigation receiver assembly

(Continued)

Item		Function
Map Display	Traffic Information	The user can use the traffic information obtained from the Radio Data System-Traffic Message Channel (RDS-TMC).
Destination Search	By Home	Searches for a destination by touching the home button.
	By Quick Access	Searches for a destination by selecting the quick access point.
	By Address	Searches for a destination by inputting or selecting a street name and a town name.
	By Points Of Interest (POI)	Searches for a destination by inputting or selecting the POI.
	By POI Near Cursor	Searches for a destination by selecting the search point and the POI category.
	By Map	Searches for a destination by touching the location on the displayed map.
	By Memory	Searches for a destination by selecting the memory point.
	By Previous	Searches for a desired destination from a selection of previously set destinations and starting points.
	By Intersection	Searches for a destination by inputting or selecting the intersection.
	By Motorway Entrance/Exit	Searches for a destination by inputting or selecting the motorway and the motorway entrance/exit.
	By Coordinates	Searches for a destination by inputting the latitude and the longitude.
	By Telephone Number	Searches for a destination by inputting the telephone number.
	By UK Postal Code*1	Searches for a destination through the input of a UK postal code. The postal code search is valid only for UK postal codes.
Route Guidance	Multiple Destination Setting	Sets multiple destinations. ● Adding destination: Enables a new destination to be added before and after the destination that is set. ● Reordering destination: Enables the reordering of the arrival order of the multiple destinations that are set. ● Deleting destination: Enables the deletion of a destination.
	Road Preference	Determines whether to approve the use of the following items on the way to the destination: ● Time necessary for the entire trip ● Distance of the entire trip ● Toll road ● Motorway ● Ferry ● Car train
	3 Route Selection	Searches for the recommended, shortest, and other routes.
	Avoidance Area	Searches for a route that avoids a designated area.
	Suspending and Resuming Guidance	Suspends or resumes the route guidance.
	During Motorway Driving	Displays the distance to the next exit and junction, or POI in the vicinity of the motorway exit.
	Approaching a Motorway Exit or Junction	Displays the guidance screen of the motorway exit or junction.
	Approaching an Intersection	Displays the guidance screen of the intersection.
	Turn List Screen	Displays the list of turns on a guidance route can be viewed.
	Arrow Screen	Displays information about upcoming turns on the guidance route.

*1: Models with HDD navigation receiver assembly

*2: Models with DVD navigation receiver assembly

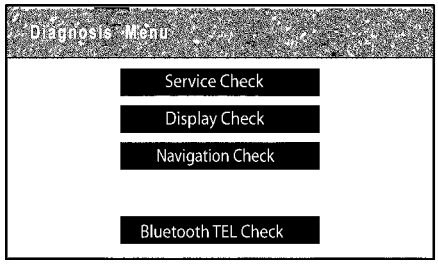
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Item		Function
Route Guidance	Voice Guidance	During a route guidance, a voice guidance is provided to suit the conditions: ● Right/left turn guidance ● U-turn guidance ● Road branching guidance ● Destination approach/arrival guidance and so on
	Distance and Time to Destination	Displays the distance and estimated travel/arrival time to the destination.
	Search Condition	Displays the road conditions of the route to the destination.
	Detour Setting	While the route guidance is operating, the user can change the route to detour around a section of the route where a delay is caused by road repairs, an accident and so on.
	Route Overview	Displays the entire route from the current position to the destination.
	Route Trace	The navigation system can store up to 200 km (124 miles) of the traveled route and retrace the route on the screen.
	Display POI Icons	The user can select the POI icons that appear on the map.
	Starting Route from Adjacent Road*2	The user can start the route guidance from the adjacent road.
	Adaptive Volume Control*2	The volume is turned up automatically when the vehicle speed reaches 80 km/h (50 mph) or more.
Others	Speech Command	Enables the user to operate the navigation system through the voice recognition function.
	Help Screen	This function explains the user what operation can be performed when a "?" on the display is pushed.

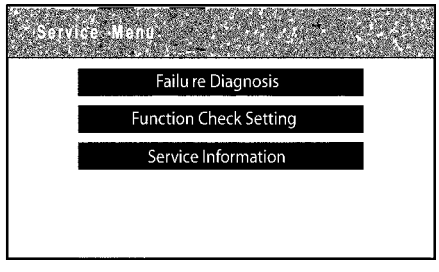
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3. Diagnosis

The following check menus are included in the service check screen:



DVD Navigation Receiver Assembly



HDD Navigation Receiver Assembly

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For details on the procedure required to enter the service check screen, refer to the TOYOTA RAV4 Repair Manual.

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