■ NAVIGATION WITH AV SYSTEM

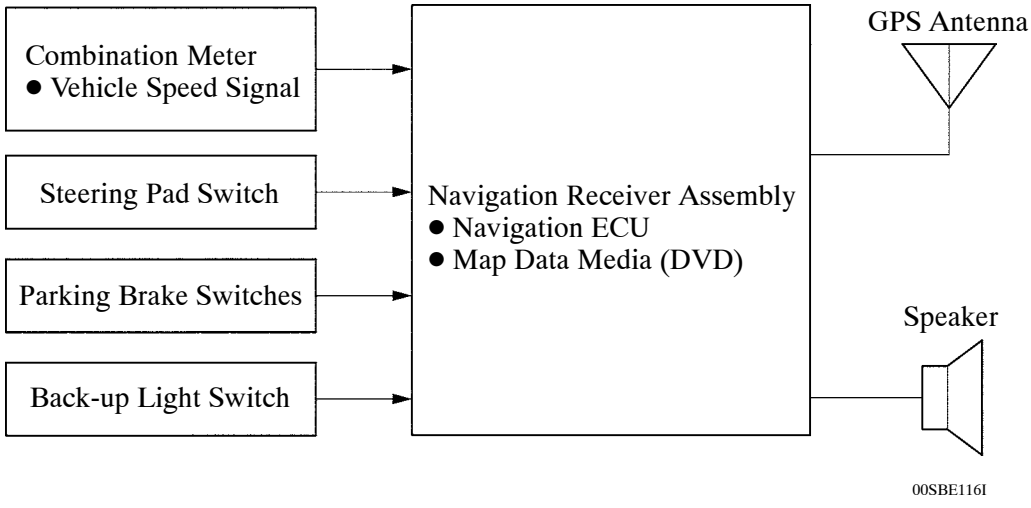
1. Description

- A navigation system with the AV system is provided as optional equipment on the TS grade of the models for Europe.
- It uses a wide, 6.5-inch LCD (Liquid Crystal Display) screen with a pressure sensitive touch panel for improved ease of use.

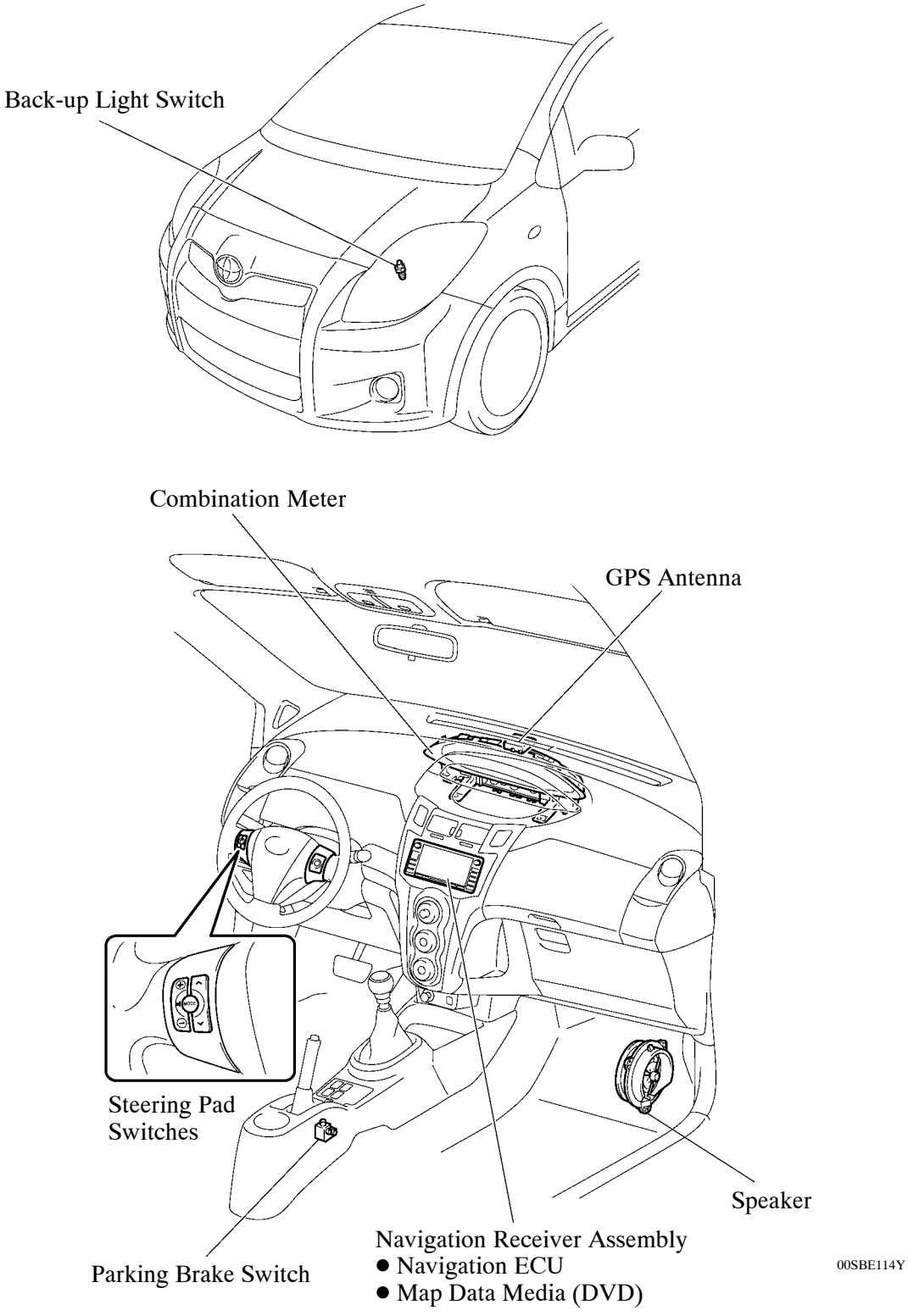
▶ Specifications ◀

Display	Wide 6.5-inch LCD	
	Pressure Sensitive Touch Panel	
Navigation System	GPS	
Languages Supported	Voice Guidance	English, German, French, Dutch, Italian, Danish, Swedish, Spanish, Norwegian, Portuguese
Map Data Media	DVD	
Gyro Sensor (Included in Navigation ECU)	Piezoelectric Ceramic Piece	

▶ System Diagram ◀



2. Layout of Main Components



TS Grade Models for Europe

3. Navigation System

- Based on the map data on the DVD, signals from the GPS satellites, signals from the built-in gyro sensor, and signals from the meter ECU, the vehicle's present position, direction of travel, and driven distance are calculated and displayed on the navigation display.
- The new models have the GPS voice navigation system 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	Depending on the position of the headlight switch, the screen changes between the day or night modes.
	Front Wide	Displays a map in the direction of travel of the vehicle in an enlarged form. (Heading up only)
	Multi-step Scale Display	Changes and displays the map scale in 13 steps.
	Stepless Scale Display	Changes the scale of the map to the desired scale without the basic 13 steps.
	Direct Scale Change	Directly selects and displays the map scale.
	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.
	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.
	RDS-TMC Info. Indication	Receives FM multiplex broadcasts and displays traffic information on the map screen.
	Map Coverage Info. Screen	Displays the map area that is recorded on DVD.
	Whole Route Function	Changes the display scale of the map screen and displays the whole route.
	Street Name Indication on Scrolled Map	Displays the street name and the city name even when the map screen is being scrolled.
	Lane Indication	Displays the lane in the direction of travel at an intersection along the route.
	Arrival Time	Displays the expected time of arrival at the destination.
	Route Trace	Displays the route 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.
	Postal Code Search	Searches for a postal code.
	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 intersect 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.
	Coordinate Search	User can input destination like an oasis in the desert etc.
	Telephone Number Search	Searches a facility by its telephone number.
	POI, Brand Icon Indication	Displays brand icons for points-of-interest. (Only corresponded to some brands)

(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 Info.	Searches for a route that detours traffic congestion.
	Motorway Mode Screen	Displays information on facilities in the vicinity of the motorway exits and entrances.
	Border Guidance	Displays a border mark when crossing a border.
Guidance	Destination Direction Arrow Display	Uses arrows along the road to display the direction of the destination during route guidance.
	Off-route Arrow Display	Uses arrows to display the direction of the destination during off-route.
	Rotary Guidance	Guidance that renders the entry and exit into a rotary as a single branching point.
	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 Map Display	Intersection map appears when the vehicle is approaching an intersection.
	Turn List Display	Displays a turn list on the right side of the two-screen display.
	Calendar	Anniversary or appointment dates can be input and displayed.
	Function Help	Explains the function of the switches on the main screens, such as the destination and menu.

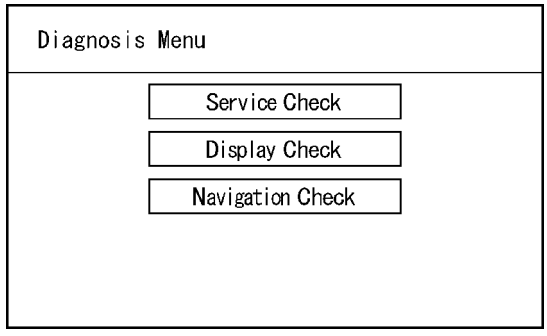
Diagnosis Screen Display

The navigation system is equipped with a self-diagnosis function and can display the diagnosis menu shown on the right.
The diagnosis menu contains the following 3 items.

a) Service Check

b) Display Check

c) Navigation Check

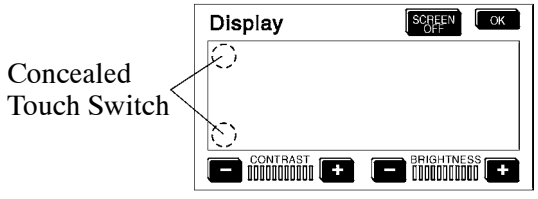


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Service Tip

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) The ignition switch (engine switch*) is turned ON (ACC) or ON (IG).
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.

For details, refer to the Yaris Repair Manual.
*: Models with entry & start system



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