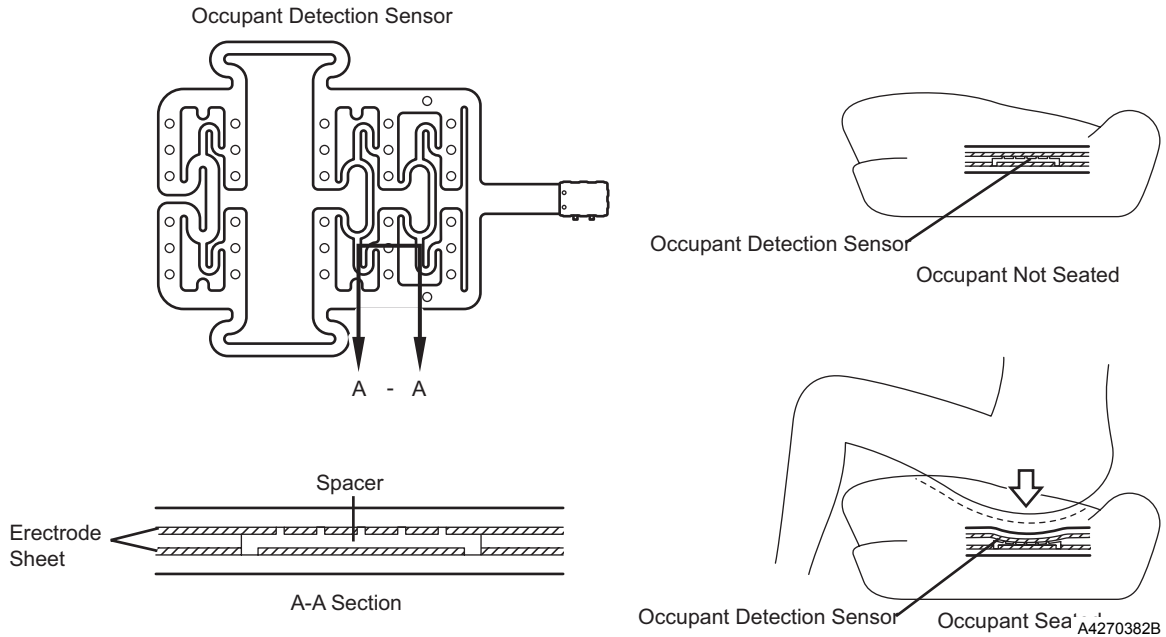


Occupant Detection Sensor

- When an occupant is seated in the front passenger seat, a load is applied to the seat cushion. This load causes the electrodes in the occupant detection sensor located under the seat cushion cover to come in contact. Thus, the meter ECU detects the presence of an occupant.*

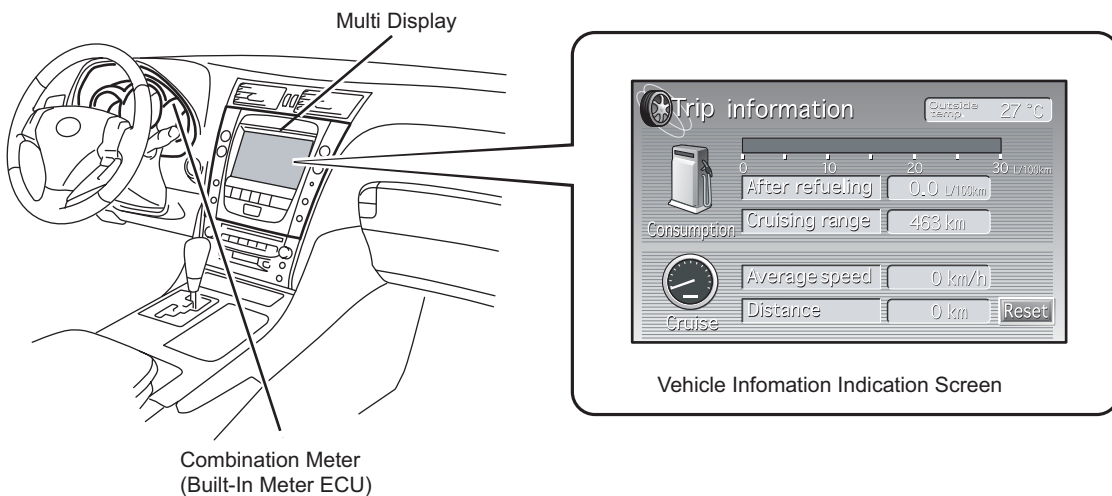
❖REFERENCE❖

*If a load exceeding a predetermined amount acts on the seat cushion, such as when luggage is placed on the front passenger seat cushion, this load may be detected by the sensor.



Vehicle Information Screen Indication

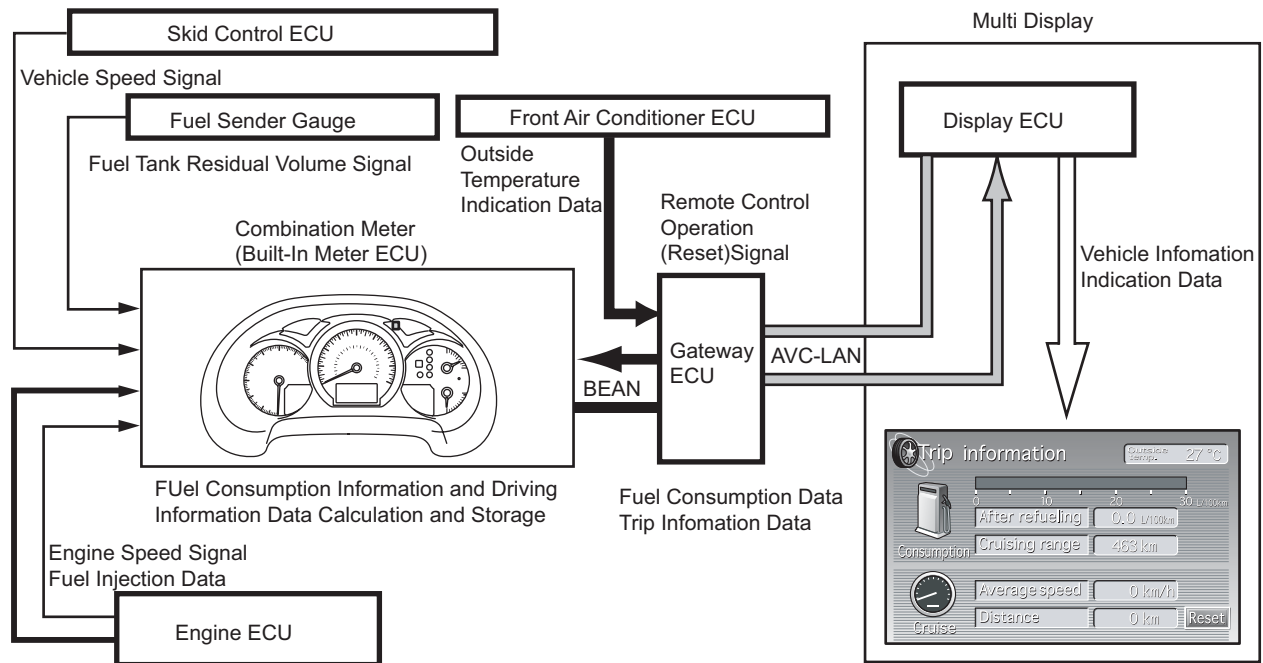
- The vehicle information screen uses the multi display that is located in the upper center area of the instrument panel to show vehicle information, such as the fuel consumption rate or the driven distance, based on various pieces of information provided by the combination meter.



Vehicle Information Screen Indication System summary

- The meter ECU calculates the individual pieces of vehicle information by receiving the inputs of various pieces of data from the skid control ECU, fuel sender gauge, and the engine ECU. Then, it outputs them in the form of vehicle information signals to the multi display.

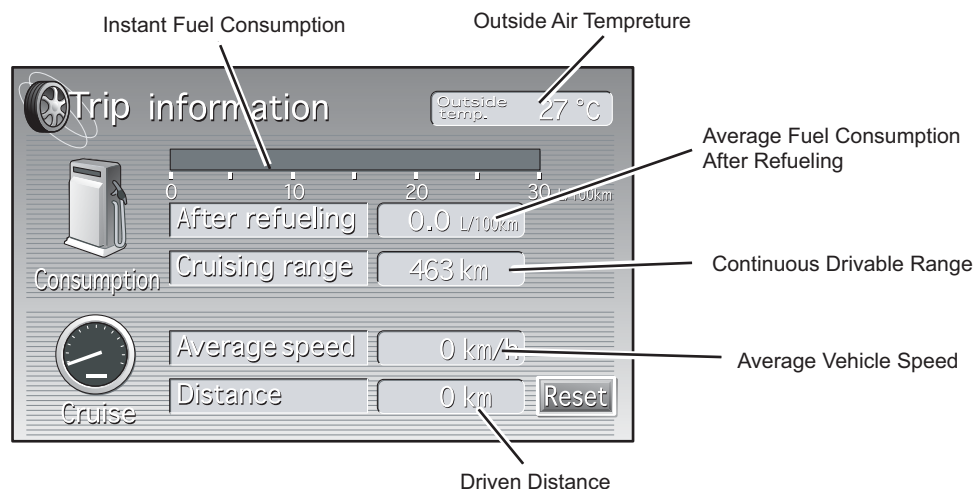
Fuel Consumption Information and Driving Information Data Calculation and Storage



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Vehicle Information Screen Indication Function

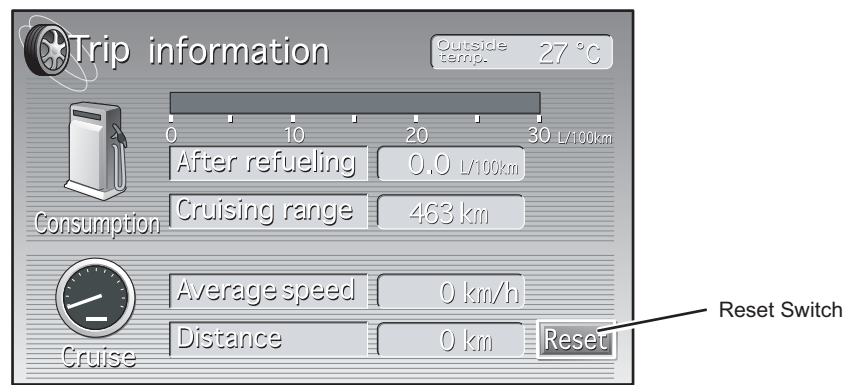
- The vehicle information screen consists of a single screen on which the following pieces of information are listed: fuel consumption information (instant fuel consumption, average fuel consumption after refueling, and continuous drivable range), and trip information (average vehicle speed and driven distance).



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Vehicle Information Screen Switch Operation

- For details on how to indicate vehicle information on the multi display, refer to the Toyota Electro Multivision. (Reference: Toyota Electro Multivision information mode function,)
- By touching "Reset" on the trip information screen, the driver can reset the average vehicle speed and driven distance data. This allows the system to start recounting.



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Instant Fuel Consumption Indication Specification

Instant Fuel Consumption Indication Specifications

Indication Area	Indication Configuration	Function
• 0.0~90.0MPG{0.1MPG increments(EU right handle vehicle except Ireland and Cyprus)} • 0.0 ~ 20.0L/100km{0.1L/100km increments(other country)} • Bar indication using dots	• Shows 0.0 MPG(0.0L/100km) when the ignition is turned ON and when the engine is started. • Starts calculating when the vehicle starts to move. • Shows 0.0 MPG(0.0L/100km) if fuel injection volume data cannot be received.	• The meter ECU calculates the instant fuel consumption rate based on the driven distance (per vehicle speed signals) for every 20 revolutions of the engine and the fuel consumption volume (per fuel injection volume data). Upon receiving the input of this data via AVC-LAN, the display ECU shows the instant fuel consumption on the display.

Refueling Average Consumption Indication Specification

Average Fuel Consumption After Refueling Indication Specifications

Indication Area	Indication Configuration	Function
• 0.0~90.0MPG{0.1MPG increments(EU right handle vehicle except Ireland and Cyprus)} • 0.0 ~ 30.0L/100km{0.1L/100km increments(other country)}	• Shows the previous data when the ignition is turned ON. • Starts the continuous calculation when the engine is started. • Leaves the value blank (no indication) if the fuel injection volume data cannot be received.	• The meter ECU detects refueling based on the fuel residual volume signal. It resets the data when the vehicle starts to move. It calculates the average fuel consumption following the refueling. Upon receiving the input of this data via AVC-LAN, the display ECU shows the average fuel consumption after refueling on the display.

Continuous Drivable Range Indication Specification

Continuous Drivable Distance Indication Specifications

Indication Area	Indication Configuration	Function
• 0~999 mile {1mile increments(EU right handle vehicle except Ireland and Cyprus)} • 0 ~ 999 km {1km increments(other country)}	• Shows the previous data when the ignition is turned ON. • Starts the continuous calculation when the engine is started. • Leaves the value blank (no indication) if a failure is detected in the fuel gauge.	• The meter ECU learns the fuel consumption rate based on the vehicle speed signals and the fuel consumption volume data. Then, based on the present fuel residual volume signal the meter ECU calculates the continuous drivable range. Upon receiving the input of this data via AVC-LAN, the display ECU shows the continuous drivable range on the display.

Average Vehicle Speed Indication Specification

Average Vehicle Speed Indication Specifications

Indication Area	Indication Configuration	Function
• 0~180mph {1mph increments(EU right handle vehicle except Ireland and Cyprus)} • 0 ~ 300km/h {1 km/h increments(other country)}	• Shows the previous data when the IG or ACC is ON. • Resets the data through a reset operation or when the vehicle starts to move. Then, the calculation starts after the reset. • Updates the data every 10 seconds after the calculation starts.	• The meter ECU resets the data by receiving the input of one of the following signals: a data reset signal from the display ECU, as a result of operating the switch; or a vehicle speed signal from the skid control ECU. Then, the meter ECU integrates the engine operation duration and the driven distance after the reset, in order to calculate the average vehicle speed. Upon receiving the input of this data via AVC-LAN, the display ECU shows the average vehicle speed on the display.

Driven Distance Indication Specification

Driven Distance Indication Specifications

Indication Area	Indication Configuration	Function
• 0~999mile (1mile increments(EU right handle vehicle except Ireland and Cyprus)) • 0 ~ 999km {1km increments(other country)}	• Shows the previous data when the IG or ACC is ON. • Resets the data through a reset operation or when the vehicle starts to move. Then, the calculation starts after the reset. • Updates the data when the data is switched at 1km intervals.	• The meter ECU resets the data by receiving the input of one of the following signals: a data reset signal from the display ECU, as a result of operating the switch; or a vehicle speed signal from the skid control ECU. Then, the meter ECU calculates the driven distance after the data reset. Upon receiving the input of this data via AVC-LAN, the display ECU shows the driven distance on the display.

Outside Air Temperature Indication Specification

Outside Temperature Indication Specifications

Indication Area	Indication Configuration	Function
-40 ~ 50°C(1°C increments)	- Shows "E" if the display ECU is unable to receive the outside temperature indication signal. - Shows "E°C" or "--°C" in case of a system failure.	The display ECU receives the input of the outside temperature indication data from the front air conditioning ECU via AVC-LAN to show the outside temperature.

Vehicle Information Screen Indication Operation

- The meter ECU calculates the fuel consumption information and trip information display data by receiving the inputs of the following pieces of information: a vehicle speed signal from the skid control ECU, fuel injection volume data from the engine ECU, a fuel tank residual volume signal from the fuel sender gauge, etc. The meter ECU outputs these pieces of data to the display ECU via the Audio Visual Communication - Local Area Network (AVC-LAN).
- Upon receiving the input of these pieces of data, the display ECU actuates the screen display driver based on a switch operation signal. Thus, it indicates the individual fuel consumption displays and trip information on the multi display.
- The meter ECU stores the fuel consumption display (except instant fuel consumption) and trip information display data in its memory, even after the ignition has been turned OFF.

