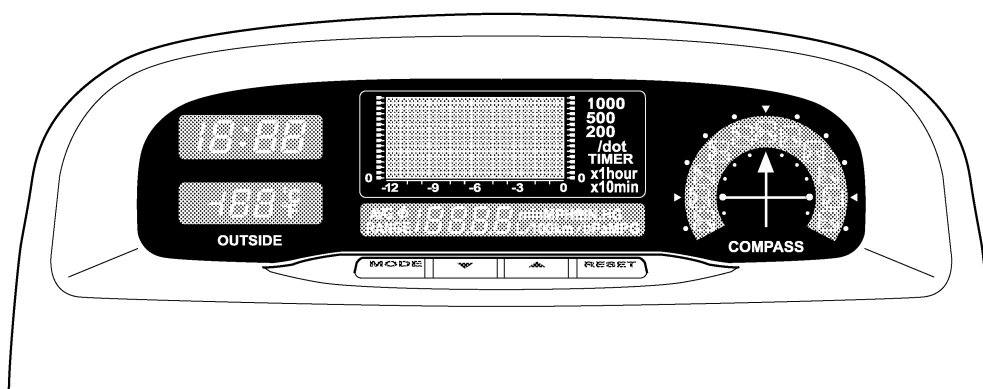


■ ACCESSORY METER

1. General

As on the previous model, an accessory meter equipped with a multi-information display is available as optional equipment. However, the functions indicated below have been added or discontinued on the new Land Cruiser/Land Cruiser Prado.

- The trip information display function (Average Fuel Consumption, Instant Fuel Consumption, Elapsed Time and Drivable Distance) has been added.
- The inclinometer has been discontinued.
- The timer function has been discontinued.



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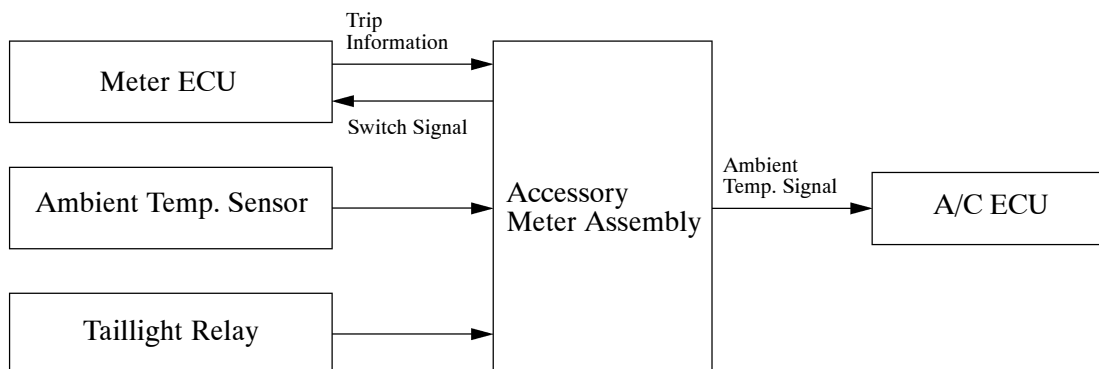
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Service Tip

Altimeter sometimes does not show the expected or correct value and might differ a lot from the actual altitude during driving and after engine starting up. The reason why such difference is made is that the displayed altitude is a calculated value that is achieved by converting the actual atmospheric pressure inside the vehicle (which is read by the atmospheric sensor). In addition, value is corrected in relation to the temperature that sensed around the pressure sensor and its characteristics (tolerance).

However, if the altitude becomes different than the actual, it can be adjusted by operating the RESET button that is located in front of the accessory meter.

2. System Diagram



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3. Function of Main Components

Display Portion

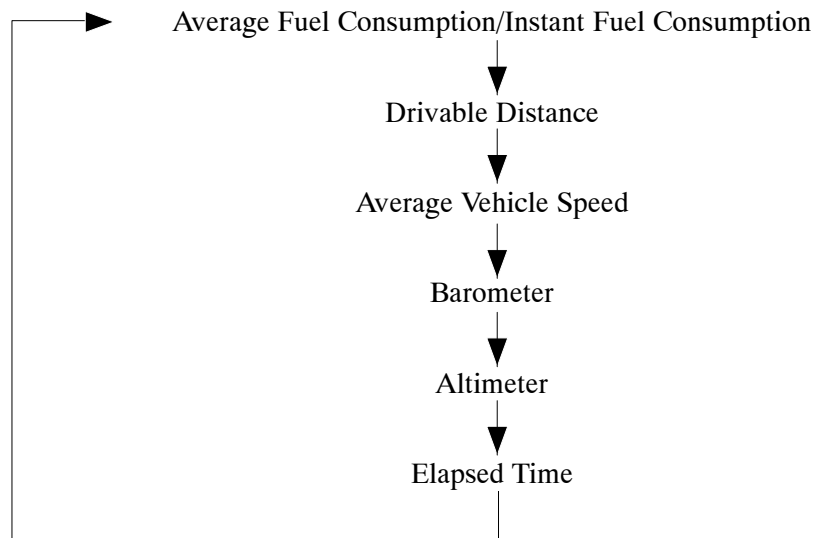
The accessory meter provides the 10 functions listed below. Excluding the clock, ambient temperature and compass display, the remaining 7 functions can be selected and displayed in the multi-information display by operating the switch.

Item		Outline
Clock Display and Ambient Temperature Display		<ul style="list-style-type: none"> • Clock display • Displays ambient temperature in accordance with the ambient temperature sensor signal.
Compass Display		Uses an earth magnetism sensor to detect the azimuth of the vehicle's current direction of travel and displays it in a meter that contains 16 azimuth angles. In addition, this meter has a function to correct the azimuth errors caused by the magnetism of the vehicle.
Multi-Information Display	Average 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 [gasoline engine model] or engine ECU [diesel engine model]). The display updates every 10 seconds.
	Instant Fuel Consumption	<ul style="list-style-type: none"> • In contrast to the calculations performed every 10 seconds for the average fuel consumption, the meter ECU calculates and displays the instant fuel consumption on a bar graph every 0.32 seconds. • In addition, the past instant fuel consumption value in 5 minutes intervals are shown by a line graph.
	Drivable Distance	<ul style="list-style-type: none"> • 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. • In addition, the drivable distance values for the past 12 hours are shown on a bar graph. The bar graph display updates every 30 minutes.
	Average Vehicle Speed	<ul style="list-style-type: none"> • 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. The display of the current average vehicle speed updates every 10 seconds. • In addition, the past average vehicle speeds in 5 minutes intervals are shown by a bar graph.
	Barometer	<ul style="list-style-type: none"> • Displays the barometric pressure that is detected by the barometric sensor, which is integrated in the accessory meter. The display of the current barometric pressure updates every 2 seconds. • In addition, the past barometric pressure in 30 minutes intervals are shown by a line graph.
	Altimeter	<ul style="list-style-type: none"> • The accessory meter assumes that the atmospheric pressure at 0 meters above sea level is approximately 1,013 hPa. It calculates and displays the present altitude from the difference between the sea level value and the atmospheric pressure value that is measured by the barometric sensor. The display of the current altitude updates every 2 seconds. • In addition, the past altitude value in 5 minutes intervals are shown by a bar graph.
	Elapsed Time	Displays the length of time that has elapsed from the time the ignition switch has been turned ON after the battery terminals have been connected or the RESET switch has been pressed for a long time (0.8 seconds or longer). The display updates every minute.

Switch

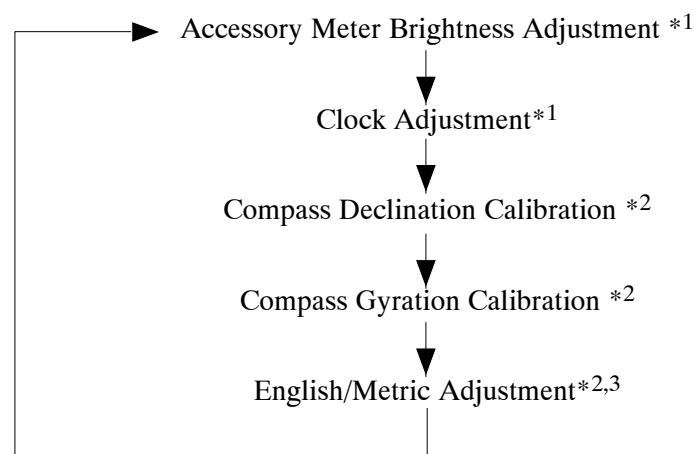
- The contents of a multi-information display can be changed by pressing a MODE switch while the ignition switch is ON.
- With the ignition switch turned to ON or ACC, press the MODE switch for 1.7 seconds or longer to display the adjustment and calibration functions of the accessory meter.

► Sequence for Switching the Contents of a Multi-Information Display ◀



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► Sequence for Switching the Calibration and Adjustment Functions of the Accessory Meter ◀



*1: Ignition Switch ON or ACC

*2: Ignition Switch ON only

*3: except G.C.C. Countries Model