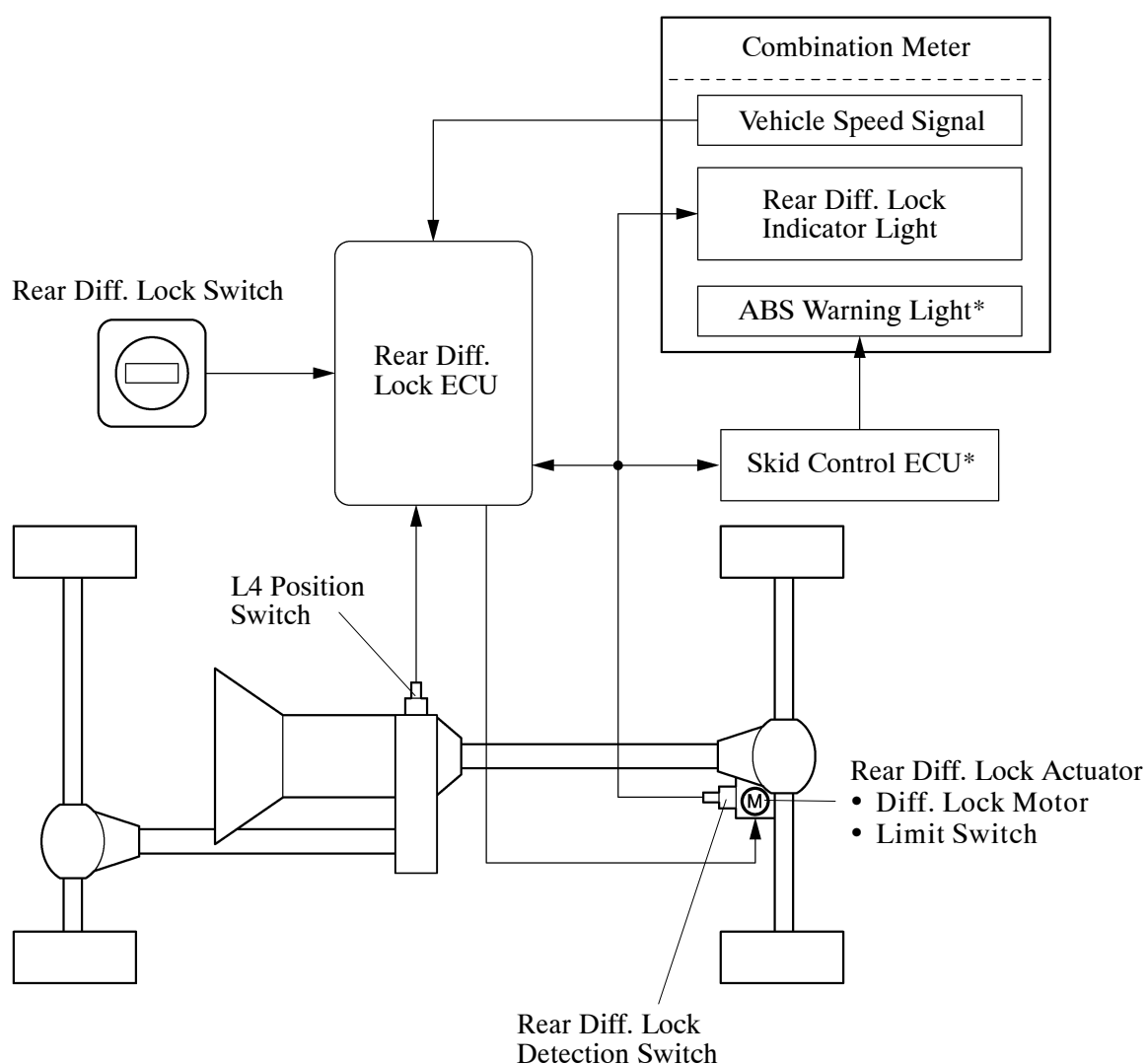


## REAR DIFFERENTIAL LOCK SYSTEM

### 1. General

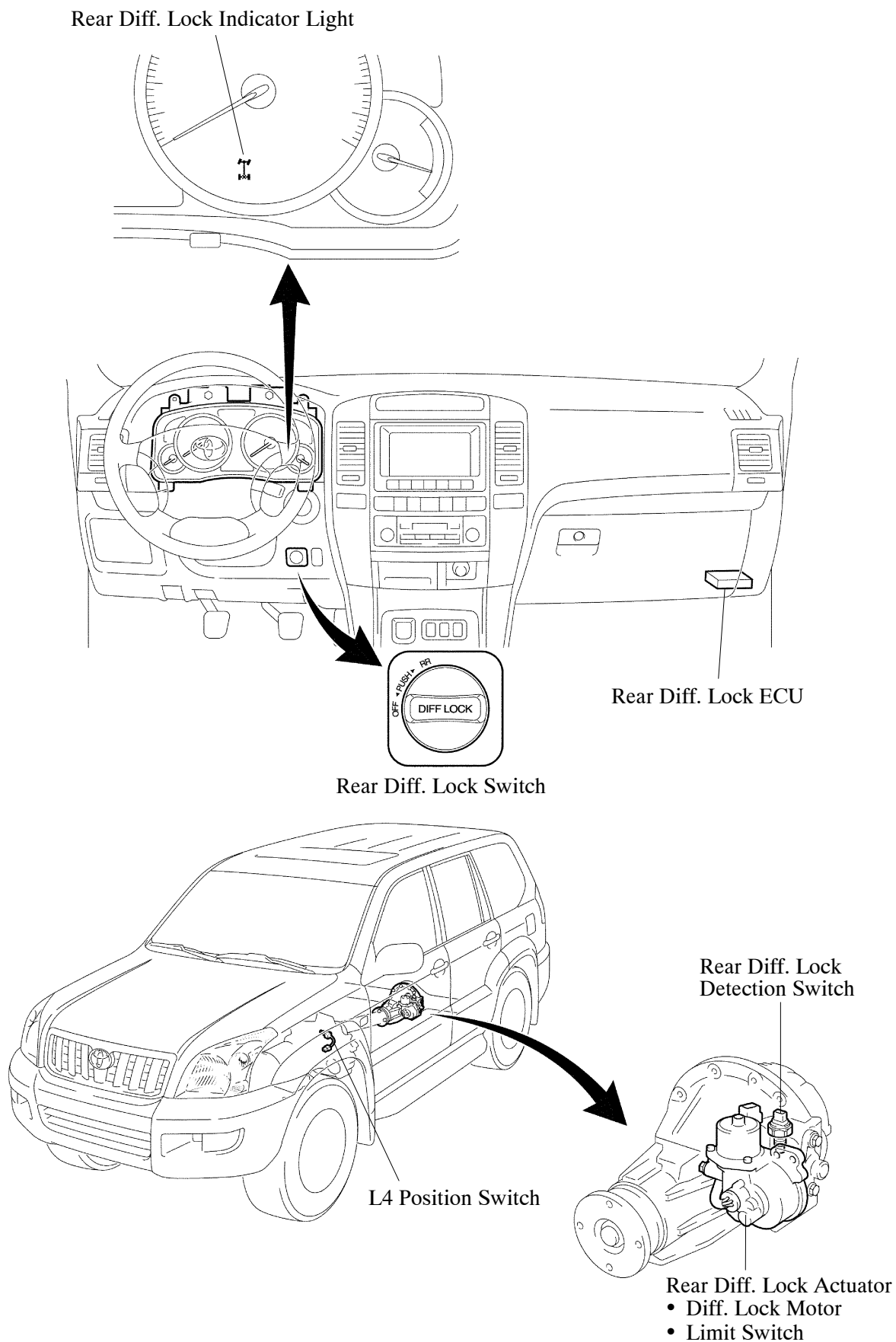
- This system is a carryover from the previous Land Cruiser/ Land Cruiser Prado.
- The sliding of the differential lock sleeve is accomplished by a rear diff. lock actuator, which is controlled by the rear diff. lock ECU in conformity with the signals from the rear diff. lock switch and from other signals.

#### ► System Diagram ◀

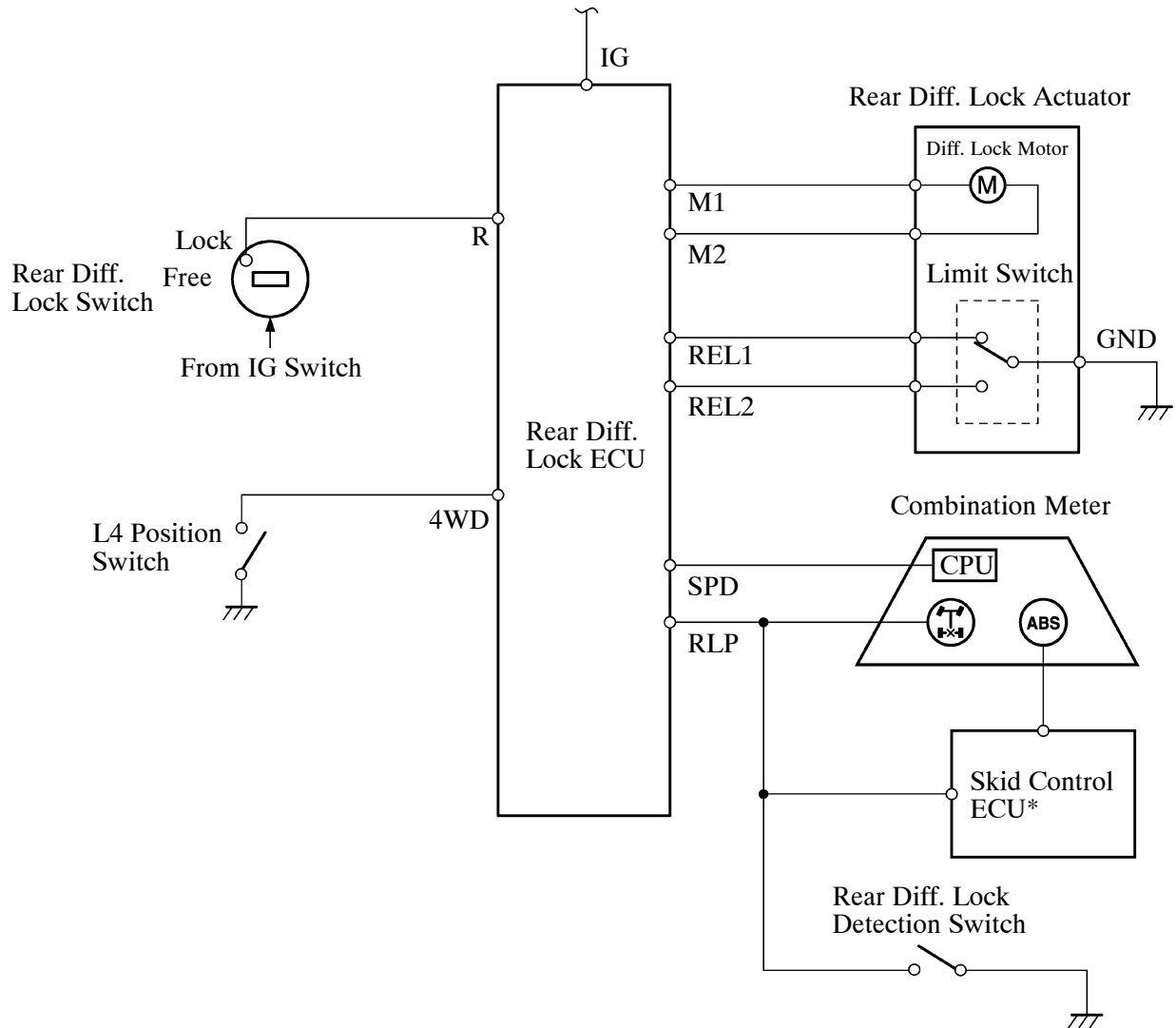


\*: with Brake Control (ABS with EBD and Brake Assist) System

## 2. Layout of Main Component



### 3. Wiring Diagram



\*: with Brake Control (ABS with EBD and Brake Assist) System

4. System Operation

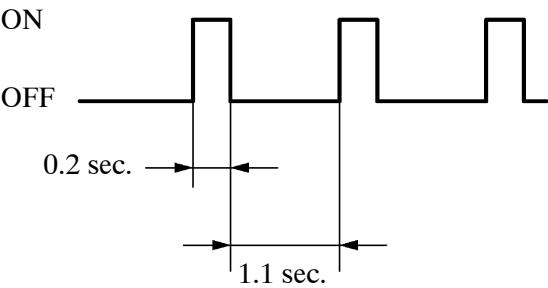
The table below shows how the rear diff. lock ECU controls the rear diff. lock actuator and rear diff. lock indicator light based on the rear diff. lock ECU signals received from the switches and signals depending on the operation of the rear diff. lock switch.

► Operation Condition ◀

Switches and Signal Condition				Rear Diff.	Rear Diff. Lock Indicator Light
Rear Diff. Lock Switch	L4 Position Switch	Vehicle Speed	Rear Diff. Lock Detection Switch		
OFF	OFF	Not input	OFF	Free	Turn OFF
ON	↑	↑	↑	↑	Blinks 1
↑	ON	8 km/h (5 mph) or higher	↑	↑	↑*
↑	↑	8 km/h (5 mph) or lower	↑	During shifting into LOCK mode	Blinks 2
↑	↑		ON	Lock	ON

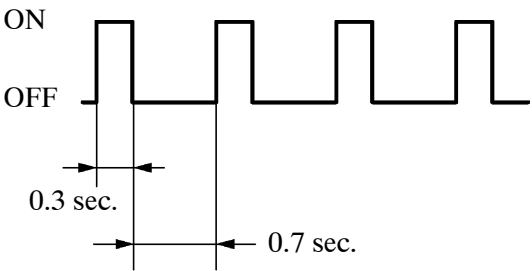
\*: When the vehicle speed is higher than 8 km/h (5 mph), the rear diff. lock ECU prohibits shifting in the “LOCK” mode, and blinks the rear diff. lock indicator light.

► Rear Diff. Lock Indicator Light Blinks Pattern ◀



Blinks 1

233CH50



Blinks 2

233CH51

— Reference —

When the rear diff. lock is in operation, the skid control ECU stops the operation of the brake control (ABS with EBD) and turns on the ABS warning light.