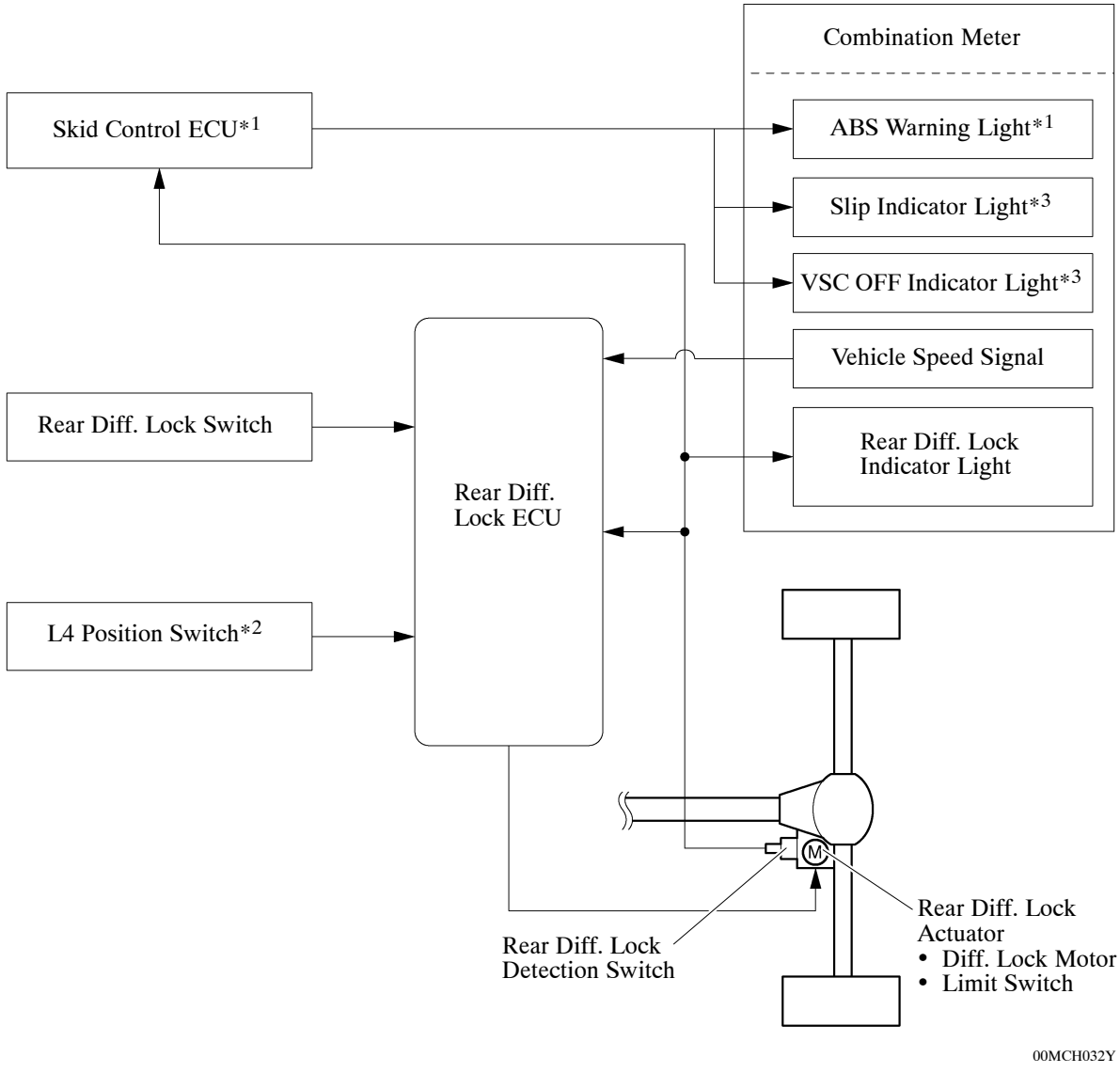
■REAR DIFFERENTIAL LOCK SYSTEM

1. General

- The sliding of the differential lock sleeve is accomplished by a rear differential lock actuator, which is controlled by the rear differential lock ECU in conformity with the signals from the rear differential lock switch and from other signals.
- On 2WD PreRunner models, the rear differential lock system operates when rear wheel revolution stops. On 4WD models, the system operates when rear wheel revolution stops during L_L mode.

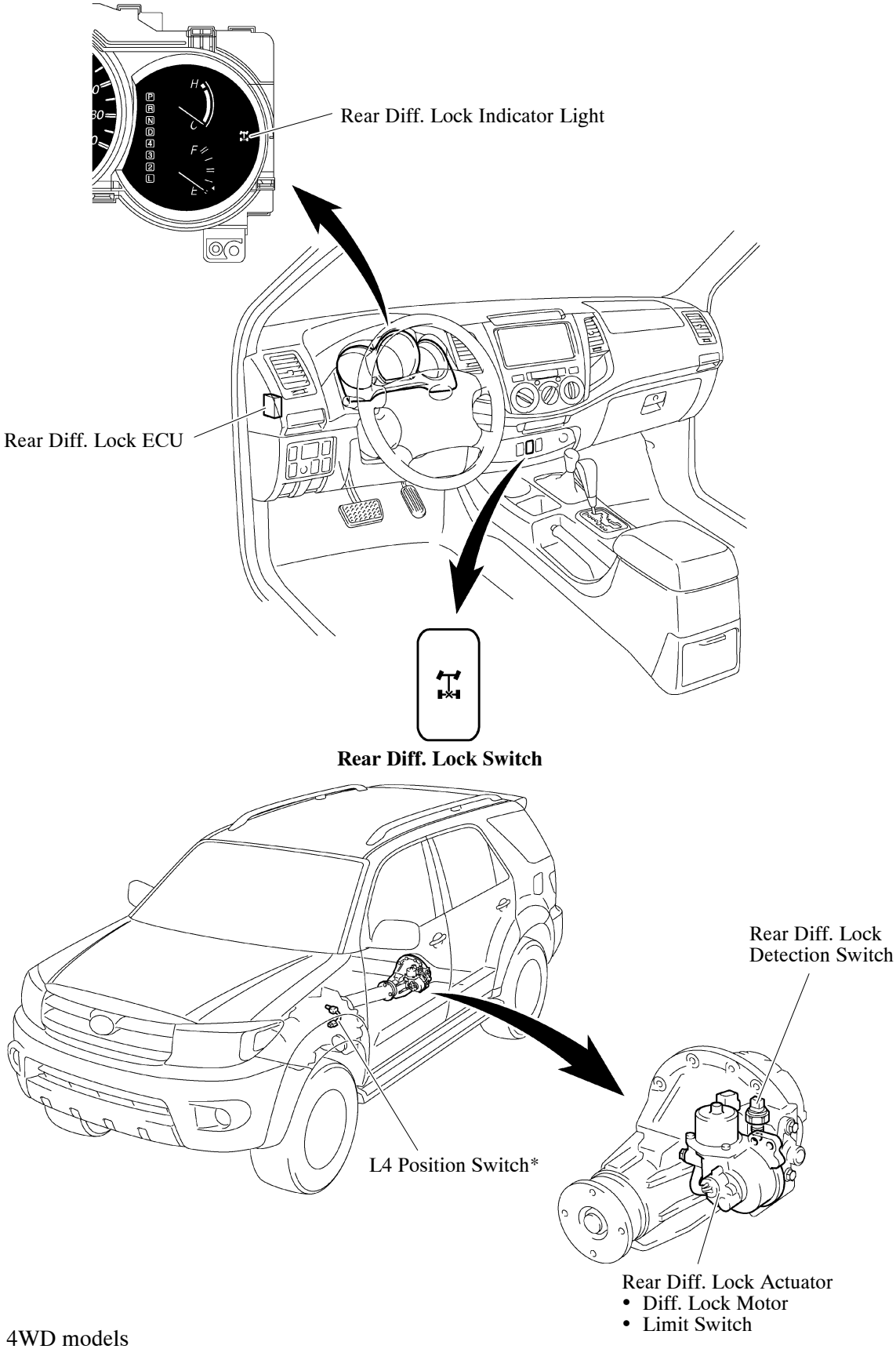
▶ System Diagram ◀



*1: Models with brake control system
*2: 4WD models
*3: Models with brake control system (ABS, EBD, brake assist, TRC, VSC)

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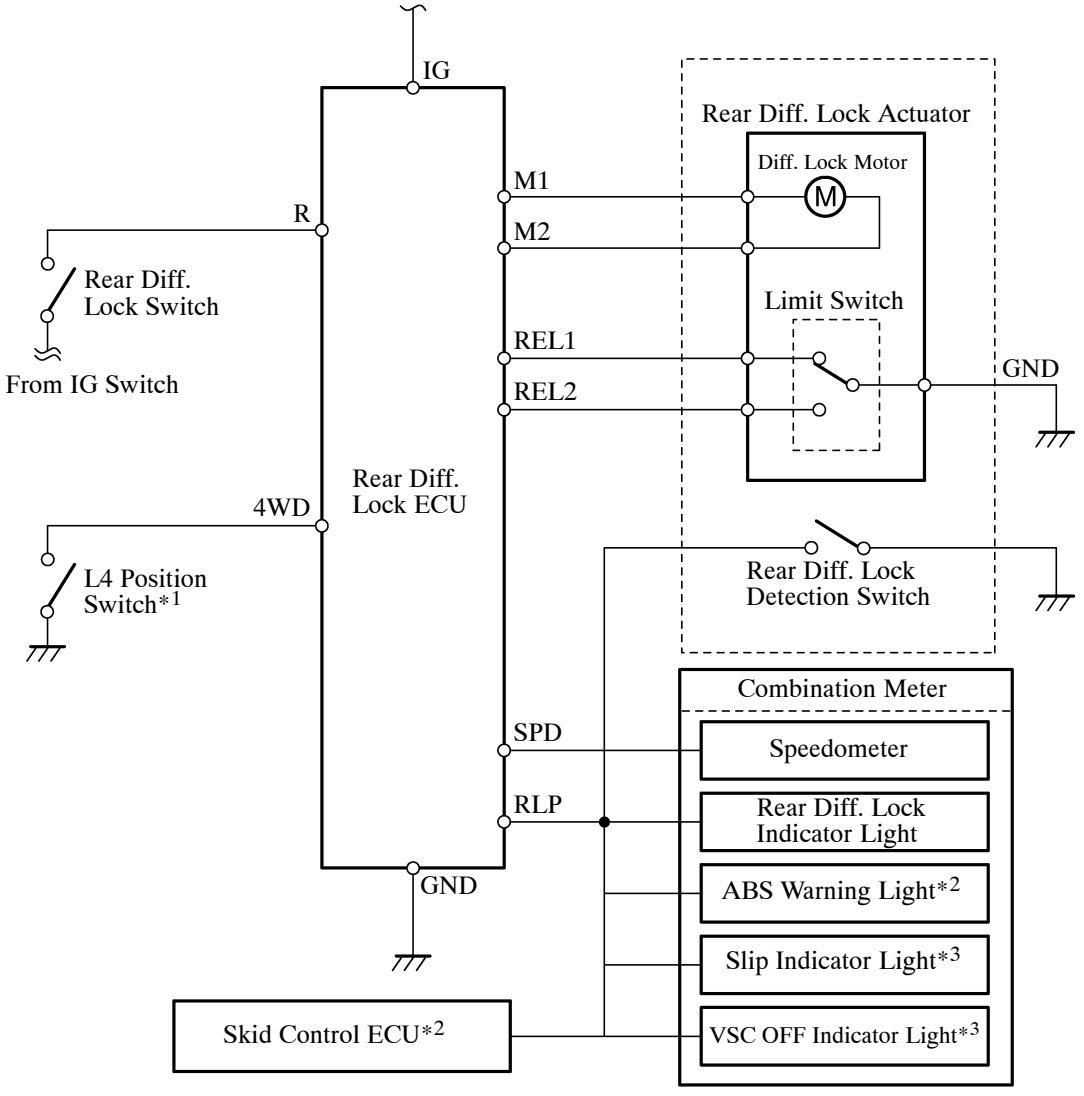
2. Layout of Main Components



*: 4WD models

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3. Wiring Diagram



*1: 4WD models
*2: Models with brake control system
*3: Models with brake control system (ABS, EBD, brake assist, TRC and VSC)

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4. System Operation

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

▶ Operation Condition of 2WD PreRunner Models ◀

Component	Condition			
Rear Diff. Lock Switch	OFF	ON	ON	ON
Vehicle Speed	-	8 km/h (5 mph) or Higher	8 km/h (5 mph) or Lower	8 km/h (5 mph) or Lower
Rear Diff. Lock Detection Switch	OFF	OFF	OFF	ON
Rear Differential	Free	Free	During Shifting into LOCK Mode	Lock
Rear Diff. Lock Indicator Light	OFF	Blink 1*	Blink 2	ON

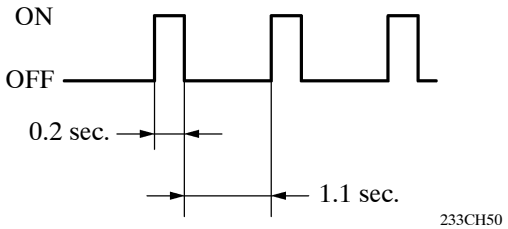
*: When the vehicle speed is higher than 8 km/h (5 mph), the rear differential lock ECU prohibits shifting in the “LOCK” mode, and blinks the rear differential lock indicator light.

▶ Operation Condition of 4WD Models ◀

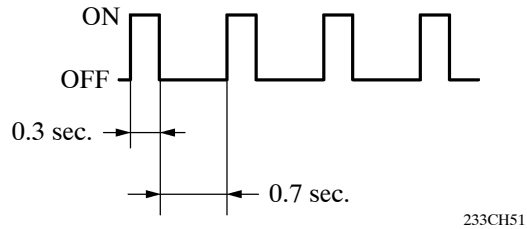
Component	Condition				
Rear Diff. Lock Switch	OFF	ON	ON	ON	ON
L4 Position Switch	OFF	OFF	ON	ON	ON
Vehicle Speed	-	-	8 km/h (5 mph) or Higher	8 km/h (5 mph) or Lower	8 km/h (5 mph) or Lower
Rear Diff. Lock Detection Switch	OFF	OFF	OFF	OFF	ON
Rear Differential	Free	Free	Free	During Shifting into LOCK Mode	Lock
Rear Diff. Lock Indicator Light	OFF	Blink 1	Blink 1*	Blink 2	ON

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

▶ Rear Differential Lock Indicator Light Blinking Pattern ◀



Blinks 1



Blinks 2

— Reference —

When the rear differential lock is in operation, the skid control ECU stops the operation of the brake control system (except EBD and brake assist functions) and turns on the ABS warning light (VSC OFF indicator light and slip indicator light)*.*

*: Models with brake control system (ABS, EBD, brake assist, TRC, VSC)

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