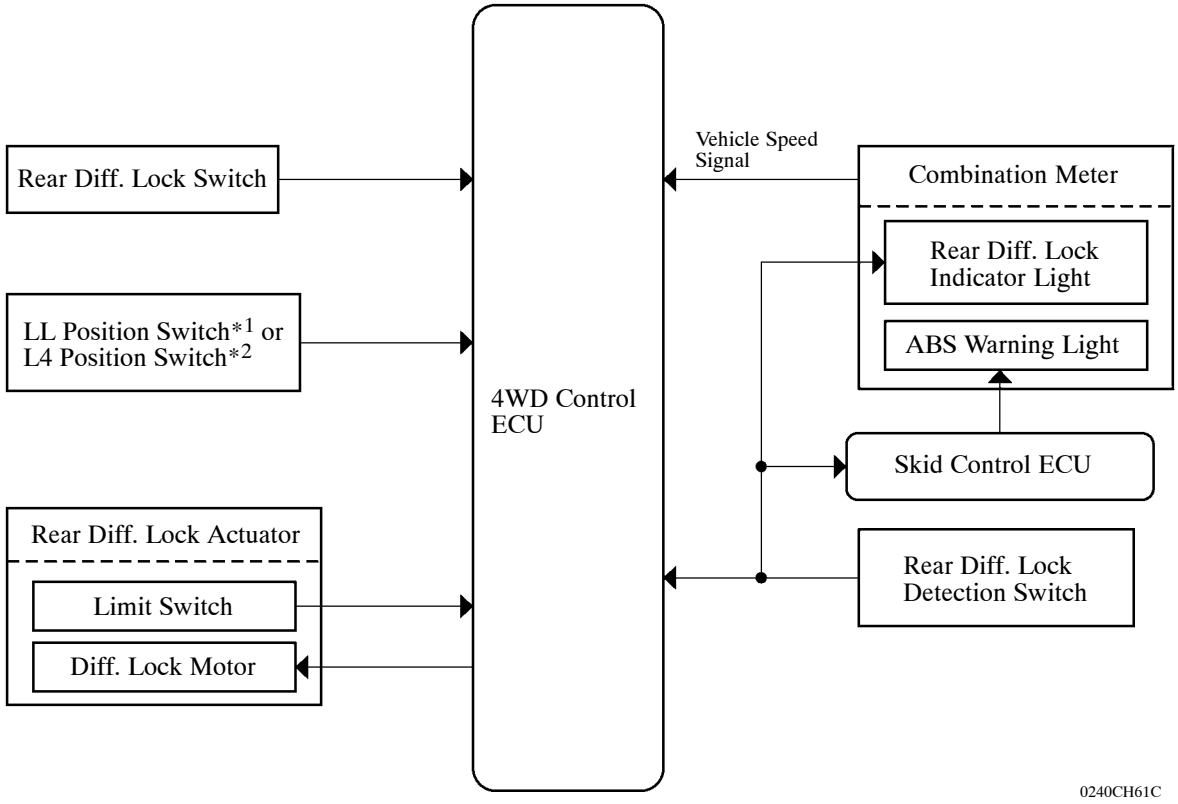
■ REAR DIFFERENTIAL LOCK SYSTEM

1. General

The sliding of the differential lock sleeve is accomplished by a rear diff. lock actuator, which is controlled by the 4WD Control ECU (Rear Diff. Lock) in based on the rear diff. lock switch signal and other signals.

- Conditions required to operate the rear diff. lock are different between the 2WD and 4WD models. For details, see page CH-59.

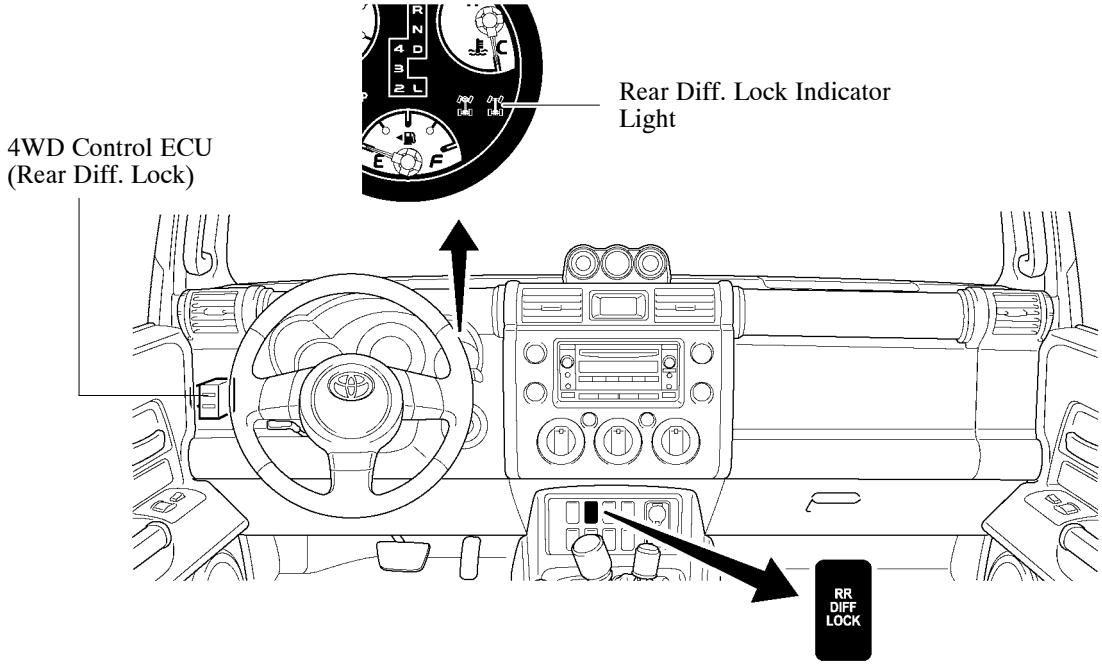
▶ System Diagram ◀



*1: 4WD Models with Manual Transmission
*2: 4WD Models with Automatic Transmission

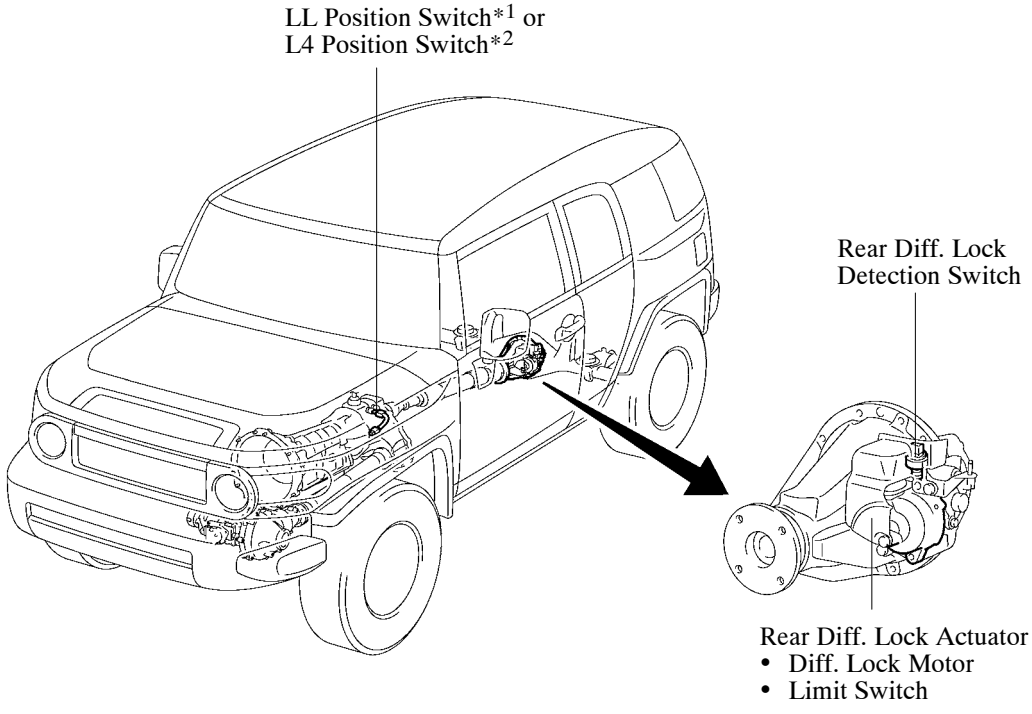
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2. Layout of Main Components



Rear Diff. Lock Switch

0240CH62CS



*1: 4WD Models with Manual Transmission
*2: 4WD Models with Automatic Transmission

0240CH63CS

3. System Operation

The table below shows how the 4WD Control ECU (rear diff. lock) controls the rear diff. lock actuator and rear diff. lock indicator light based on the ECU signals received from the switches and signals depending on the operation of the rear diff. lock switch.

▶ Operation Conditions for 2WD Models ◀

Switches and Signal Condition			Rear Diff. Condition	Rear Diff. Lock Indicator Light
Rear Diff. Lock Switch	Vehicle Speed	Rear Diff. Lock Detection Switch		
OFF	-	OFF	Free	Turn off
ON	8 km/h (5 mph) or higher			Blinks 1*
	8 km/h (5 mph) or lower		Rear diff. lock actuator is operating	Blinks 2
		ON	Lock	Turn on

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

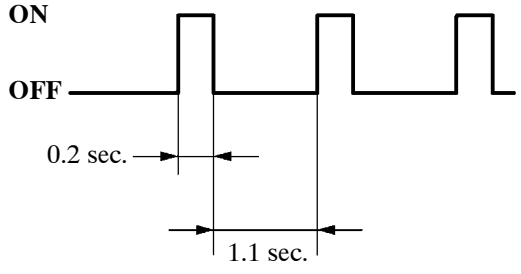
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▶ Operation Condition for 4WD Models ◀

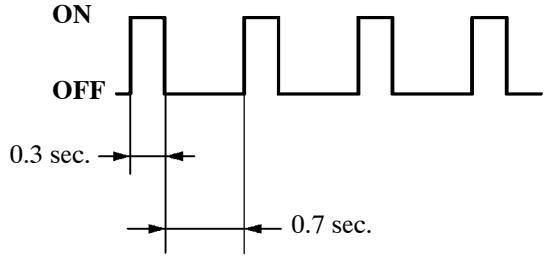
Switches and Signal Condition				Rear Diff. Condition	Rear Diff. Lock Indicator Light
Rear Diff. Lock Switch	LL or L4 Position Switch	Vehicle Speed	Rear Diff. Lock Detection Switch		
OFF	OFF	-	OFF	Free	Turn off
ON					Blinks 1
	ON	8 km/h (5 mph) or higher			Blinks 1*
		8 km/h (5 mph) or lower		Rear diff. lock actuator is operating	Blinks 2
			ON	Lock	Turn on

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

▶ Rear Diff. Lock Indicator Light Blinking Pattern ◀



Blinks 1 233CH50



Blinks 2 233CH51

-Reference-

When the rear diff. lock is operating, the Skid Control ECU stops the operation of brake control functions (ABS, Brake Assist, TRAC/A-TRAC, VSC) and turns on the ABS warning light.