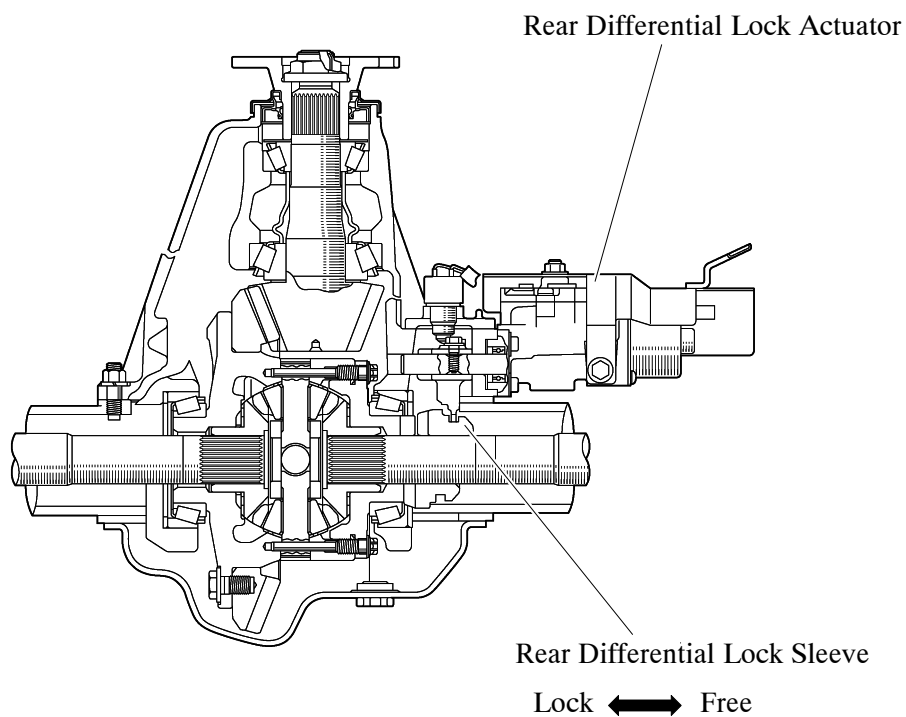


■ REAR DIFFERENTIAL LOCK SYSTEM

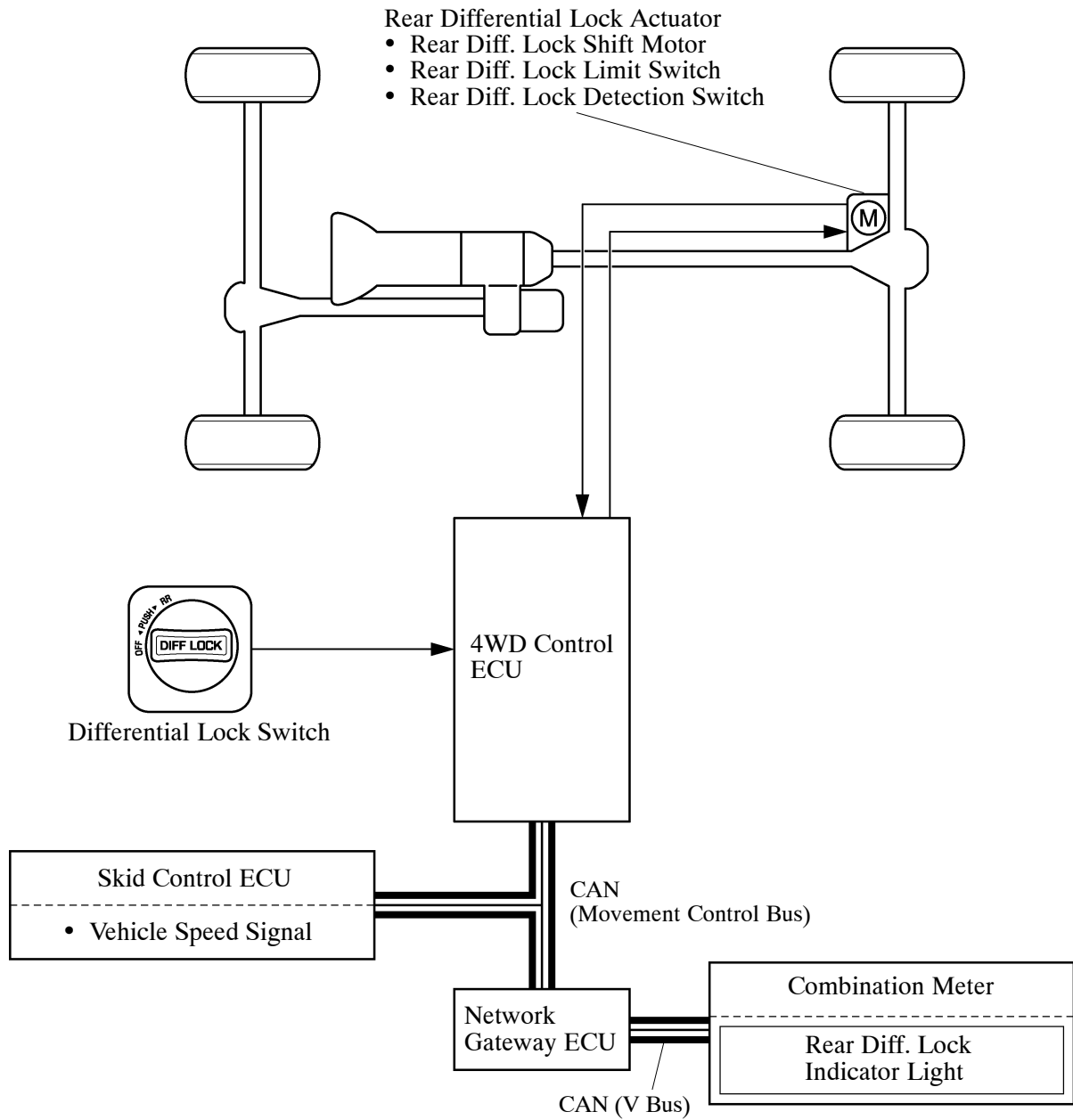
1. General

The sliding of the differential lock sleeve is accomplished by a rear differential lock actuator, which is controlled by the 4WD control ECU in conformity with the signals from the differential lock switch and from other signals.



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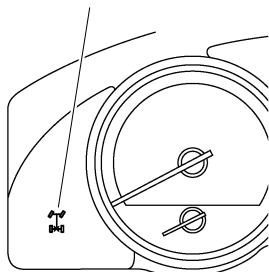
► System Diagram ◀



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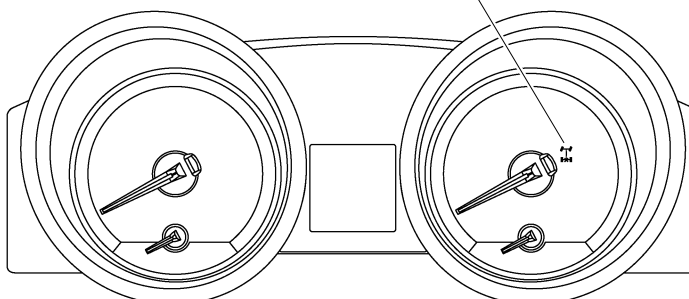
2. Layout of Main Components

Rear Diff. Lock Indicator Light

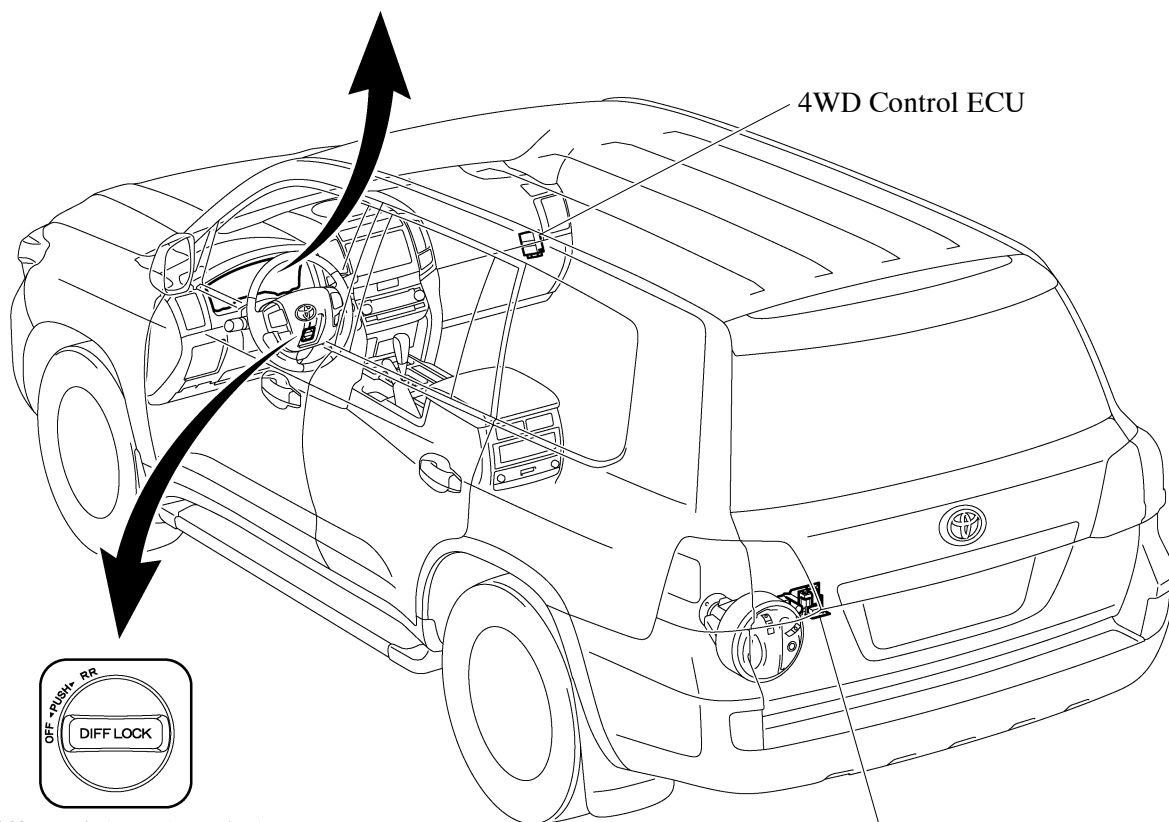


**Analog Type
Combination Meter**

Rear Diff. Lock Indicator Light



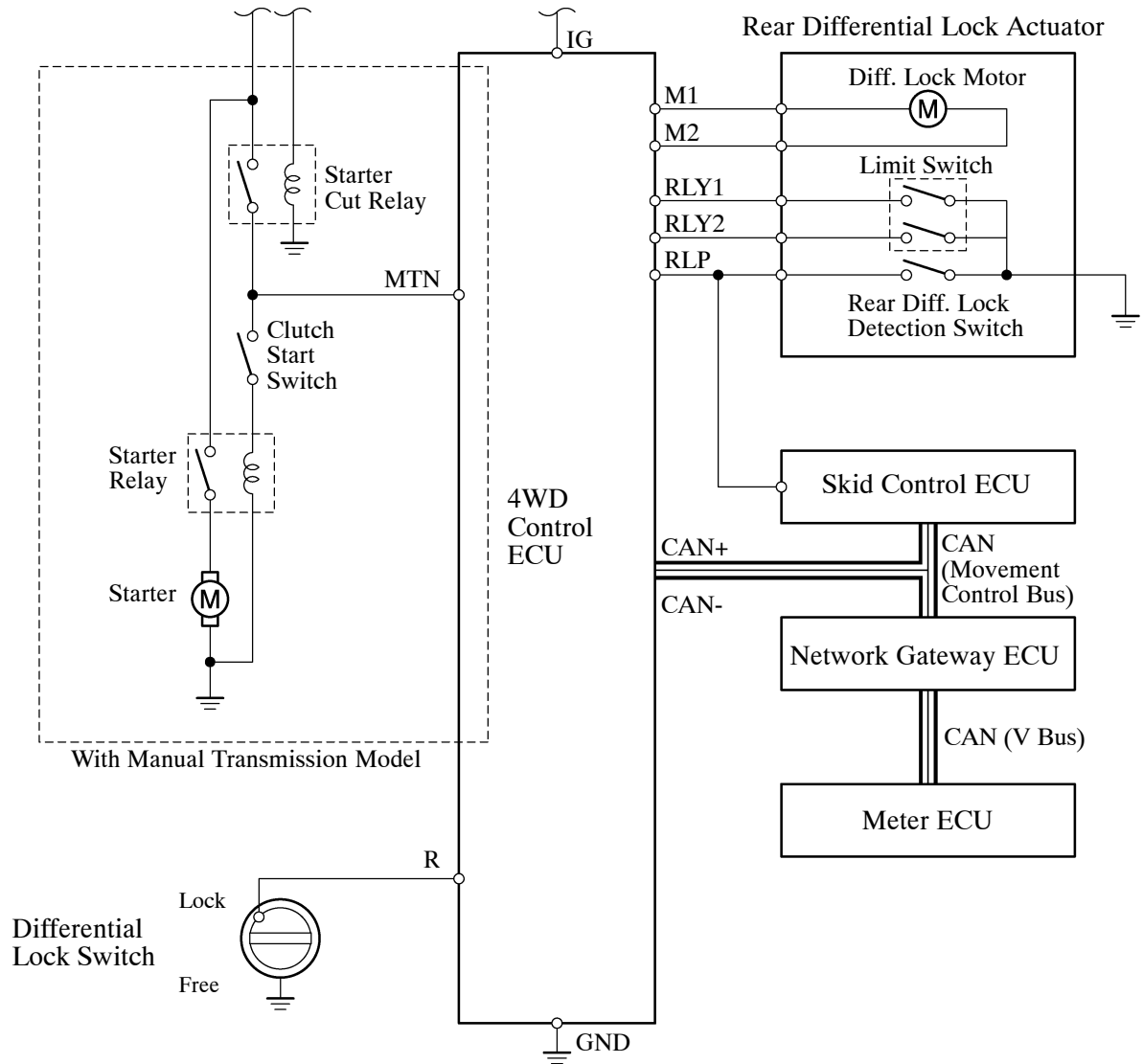
**Optitron Display Type
Combination Meter**



Differential Lock Switch

Rear Differential Lock Actuator
 • Rear Diff. Lock Shift Motor
 • Rear Diff. Lock Limit Switch
 • Rear Diff. Lock Detection Switch

3. Wiring Diagram



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4. System Operation

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

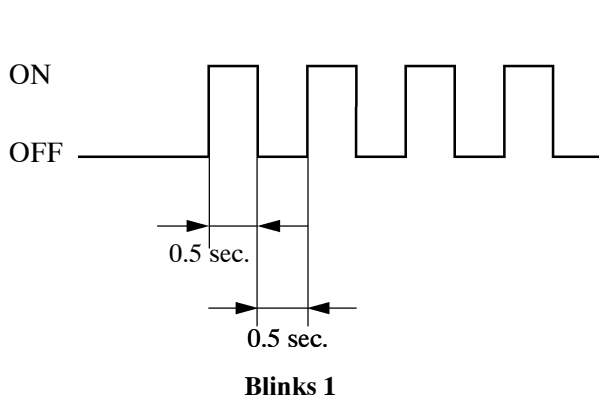
► Operation Condition ◀

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

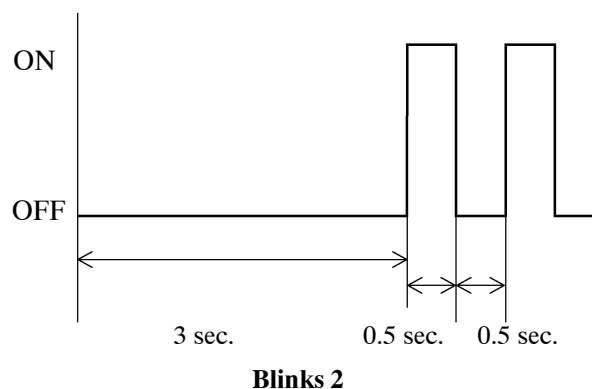
*1: When the vehicle speed is higher than approximately 8 km/h (5 mph), the 4WD control ECU prohibits shifting in the “LOCK” mode, and blinks the rear diff. lock indicator light.

*2: For models equipped with the manual transmission, when the clutch pedal is being depressed.

► Rear Diff. Lock Indicator Light Blinks Pattern ◀



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—Reference—

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