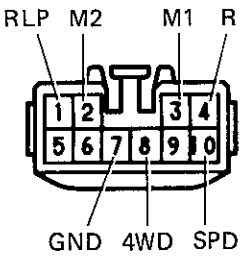
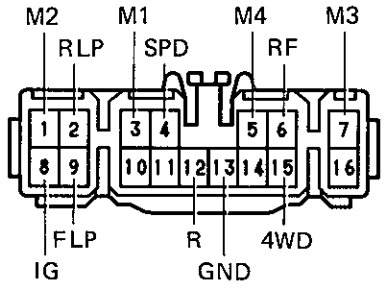
RJ, LJ



FJ, PZJ, HZJ



e-10-1
e-16-2-A

Differential Locking System Circuit

INSPECTION OF SYSTEM CIRCUIT

1. **INSPECT SYSTEM CIRCUIT WITH CONNECTOR DISCONNECTED**

Disconnect the connector from the 4WD control ECU and inspect the connector on the wire harness side as shown in the chart.

HINT: (FJ, PZJ, HZJ) When a signal enters the ECU to LOCK the front differential and set the rear differential to FREE (when battery voltage is inputted to terminal RF of ECU and about 0 V is inputted to terminal R), or a signal to FREE both the front and rear differentials, the indicator lights keep blinking until the ignition switch is turned off. (Fail-safe function)

Trouble Part	Tester Connection	Check item	Condition		Specified Value
Rear Differential Lock Actuator	M1 — M2	Resistance	—		Less than 100 Ω
Front Differential Lock Actuator	M3 — M4				Less than 100 Ω
Body Ground	GND — Body ground	Continuity			Continuity
Speed Sensor	SPD — Body ground		Vehicle moving slowly		1 pulse each 40 cm (15.75 in.)
DIFF Fuse	IG — Body ground	Voltage	Ignition Switch ON	—	Battery voltage
Rear Differential Lock Indicator Switch	RLP — Body ground			Indicator light (Rear) ON	About 0 V
				Indicator light (Rear) OFF	Battery voltage
Front Differential Lock Indicator Switch	FLP — Body ground			Indicator light (Front) ON	About 0 V
				Indicator light (Front) OFF	Battery voltage
4WD Indicator Switch	4WD — Body ground			Indicator light (4WD) ON	About 0 V
				Indicator light (4WD) OFF	Battery voltage
Differential Lock Control Switch	R — Body ground			Differential lock control switch RR or FR·RR	Battery voltage
				Differential lock control switch OFF	About 0 V
	RF — Body ground			Differential lock control switch FR·RR	Battery voltage
				Differential lock control switch OFF or RR	About 0 V

If the circuit is not as specified, check and repair or replace the trouble part shown in the table above.