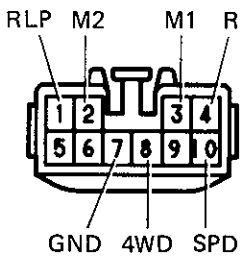
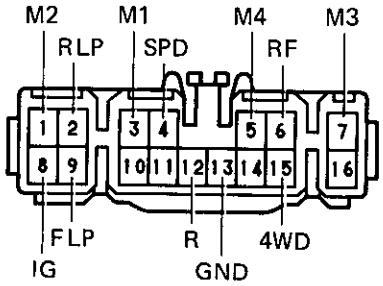
RJ, LJ



FJ, PZJ, HZJ, FZJ



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, FZJ) 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	Resistance	—		Less than 100 Ω
Body Ground	GND — Body ground	Continuity	—		Continuity
Speed Sensor	SPD — Body ground	Continuity	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	Voltage	Ignition Switch ON	Indicator light (Rear) ON	About 0 V
				Indicator light (Rear) OFF	Battery voltage
Front Differential Lock Indicator Switch	FLP — Body ground	Voltage	Ignition Switch ON	Indicator light (Front) ON	About 0 V
				Indicator light (Front) OFF	Battery voltage
4WD Indicator Switch	4WD — Body ground	Voltage	Ignition Switch ON	Indicator light (4WD) ON	About 0 V
				Indicator light (4WD) OFF	Battery voltage
Differential Lock Control Switch	R — Body ground	Voltage	Ignition Switch ON	Differential lock control switch RR or FR·RR	Battery voltage
				Differential lock control switch OFF	About 0 V
	RF — Body ground	Voltage	Ignition Switch ON	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.