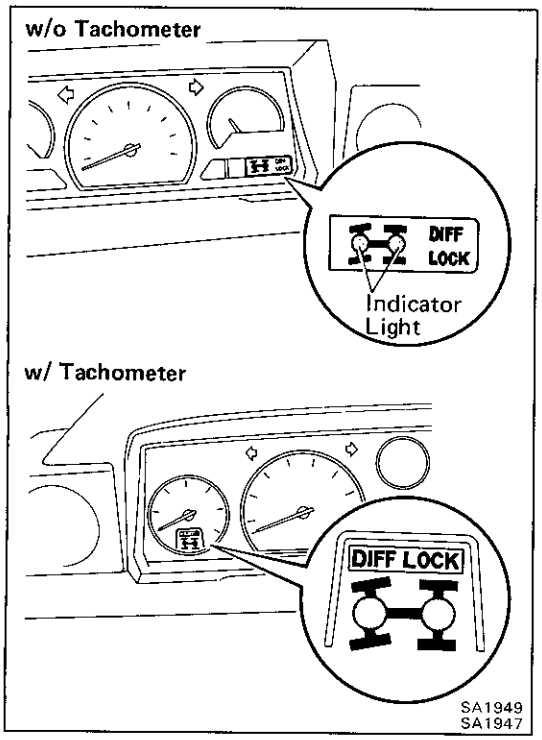
Troubleshooting

NOTICE:

- **Make sure that 4WD mode is set.**
- **When switching differential Free ↔ Lock, the indicator lamp will blink if the gears of the differential lock sleeve are not meshed. If this occurs, when the tires are rotated to apply differential power to the differential, the differential locks and the indicator lamp light up.**

Problem	Possible cause	Remedy	Page
Indicator lights do not light up.	Fusible link blown	Replace fusible link	
	GAUGE fuse blown	Replace fuse and check for short	
	Bulb bumed out	Replace bulb	
	Wiring or ground faulty	Repair as necessary	
Indicator lights do not light up (Differential lock control switch RR or FR-RR position).	DIFF fuse blown	Replace fuse and check for short	
	Differential lock switch control switch	Check switch	SA-66
	4WD control ECU faulty	Check ECU	SA-58, 60
	Wiring or ground faulty	Repair as necessary	
DIFF LOCK does not operate.	Differential lock indicator switch faulty	Check switch	SA-66
	Differential lock actuator faulty	Check actuator	SA-60
	4WD control ECU faulty	Check ECU	SA-58, 60
	Differential carrier faulty	Repair as necessary	
	Wiring or ground faulty	Repair as necessary	
After DIFF LOCK, lock not released when vehicle speed higher than approx. 8 km/h (5 mph).	Speed sensor faulty	Check sensor	*
	4WD control ECU faulty	Check ECU	SA-59, 61
	Wiring or ground faulty	Repair as necessary	

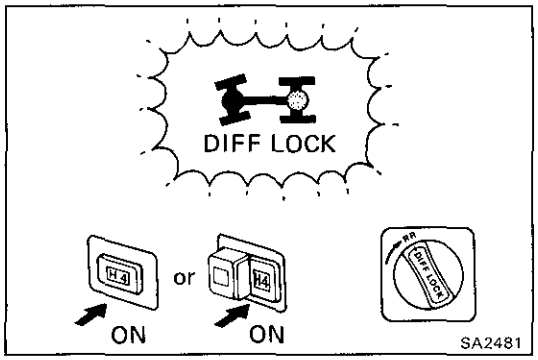
*: See Pub. No. RM183E, see page BE-57

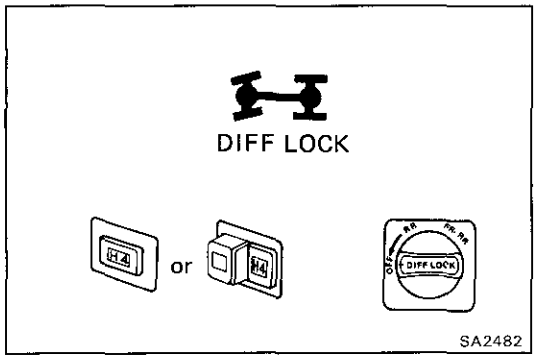


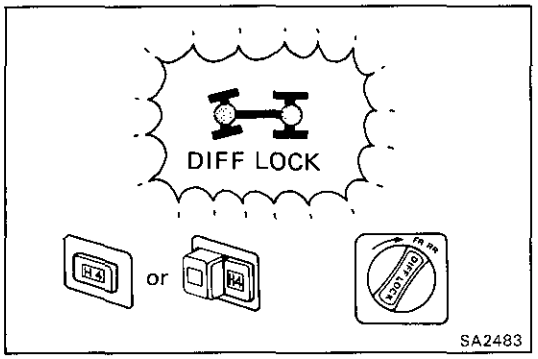
System Inspection

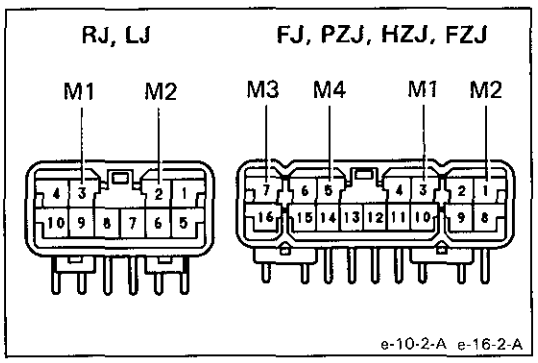
1. **INSPECT INDICATOR LIGHTS**

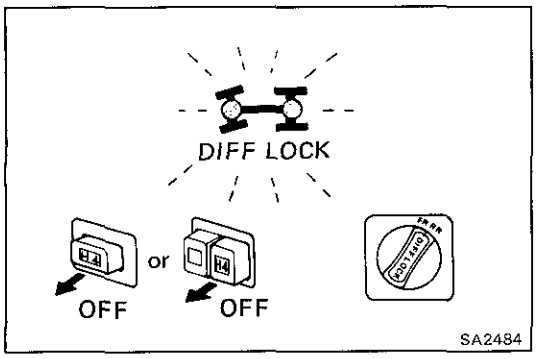
   Check that the indicator lights (front side and rear side) light up for approx. one second when the ignition switch is turned ON.











2. INSPECT DIFFERENTIAL LOCK OPERATION

HINT: Put the shift lever on neutral.

(a) Jack up the vehicle and then start the engine.

(b) Put on the 4WD switch.

(c) When the differential lock control switch is set to RR position, the indicator light (rear side) is turned on. Differential lock is applied to the rear wheel at this time.

HINT: If the gears of the differential lock system are not meshed, the indicator light remains blinking, so rotate the tires to mesh the gears.

(d) When the differential lock control switch is at OFF position, the indicator light goes off. Differential lock is released for the rear wheel at this time.

(e) When the differential lock control switch is set to FR·RR position, the indicator lights (front side and rear side) are turned on. Differential lock is applied to both the front wheels and rear wheels at this time.

(f) Check the voltage between the terminals of the 4WD control ECU when switching the lock control switch with the speedometer registering approx. 8 km/h (5 mph) or more.

Diff. lock control switch	Terminal	Specified value
OFF → RR	M1 — M2	0.5 V or less (no change)
RR → FR·RR	M3 — M4	0.5 V or less (no change)

(g) Check that the indicator lights blink when 2WD mode is set. Differential lock is released for both the front wheels and rear wheels at this time.

(h) Return the differential lock control switch to OFF.

(i) Stop the engine and jack down the vehicle.