

TROUBLESHOOTING

PROBLEM SYMPTOMS TABLE

SA090-03

Use the table below to help you find the cause of the problem. The numbers indicate the priority of the likely cause of the problem. Check each part in order. If necessary, replace these parts.

(w/ Differential locking system):

- **Check that center differential lock 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 lights up.**

Symptom	Suspect Area	See page
Wander/pulls	HINT: For pulls, refer to "Wheel Alignment Diagnosis Manual" (DM021E). 4. Tire (Worn or improperly inflated) 5. Wheel alignment (Incorrect) 6. Steering linkage (Loosen or worn) 7. Hub bearing (Loosen or worn) 8. Steering gear (Out of adjustment or broken)	SA-3 SA-5 SA-9 – SA-15 SA-133 SR-58 SR-71 SR-90
Bottoming	1. Vehicle (Overloaded) 2. Spring (Weak) 3. Shock absorber (Worn)	– SA-74 SA-79 SA-211 SA-76 SA-82 SA-208
Sways/pitches	1. Tire (Worn or improperly inflated) 2. Stabilizer bar (Bent or broken) 3. Shock absorber (Worn)	SA-124 SA-76 SA-127 SA-76 SA-82 SA-206
Front wheel shimmy	1. Tire (Worn or improperly inflated) 2. Wheel (Out of balance) 3. Shock absorber (Worn) 4. Wheel alignment (Incorrect) 5. Ball joints (Worn) 6. Hub bearing (Loosen or worn) 7. Steering linkage (Loosen or worn) 8. Steering gear (Out of adjustment or broken)	SA-3 SA-3 SA-76 SA-82 SA-5 SA-9 SA-90 SA-111 SA-114 SA-117 SA-119 SA-122 SA-14 – SR-58 SR-71 SR-90

Abnormal tire wear	<ol style="list-style-type: none"> 1. Tire (Improperly inflated) 2. Wheel alignment (Incorrect) 3. Shock absorber (Worn) 4. Suspension parts (Worn) 	<p>SA-3 SA-5 SA-9 SA-76 SA-82 SA-206 –</p>
Noise in front differential	<ol style="list-style-type: none"> 1. Oil level (Low or wrong grade) 2. Excessive backlash between pinion and ring gear 3. Ring, pinion or side gear (Worn or chipped) 4. Pinion shaft bearing (Worn) 5. Side bearing (Worn) 6. Differential bearing (Loosen or worn) 	<p>SA-45 SA-49 SA-49 SA-49 SA-49 SA-49</p>
Oil leak from front differential	<ol style="list-style-type: none"> 1. Oil level (Too high or wrong grade) 2. Front differential rear oil seal (Worn or damaged) 3. Side gear oil seal (Worn or damaged) 4. Companion flange (Loosen or damaged) 5. Side gear shaft (Damaged) 	<p>SA-45 SA-49 SA-49 SA-49 SA-49</p>
Noise in rear axle	<ol style="list-style-type: none"> 1. Oil level (Low or wrong grade) 2. Excessive backlash between pinion and ring gear 3. Ring, pinion or side gear (Worn or chipped) 4. Pinion shaft bearing (Worn) 5. Axle shaft bearing (Worn) 6. Differential bearing (Loosen or worn) 	<p>SA-139 SA-144 SA-161 SA-179 SA-144 SA-161 SA-179 SA-144 SA-161 SA-179 SA-131 SA-144 SA-161 SA-179</p>
Oil leak from rear axle	<ol style="list-style-type: none"> 1. Oil seal (Worn or damaged) 2. Rear axle housing (Cracked) 	<p>SA-131 –</p>
Oil leak from rear differential	<ol style="list-style-type: none"> 1. Oil level (Too high or wrong grade) 2. Oil seal (Worn or damaged) 3. Companion flange (Loosen or damaged) 	<p>SA-139 SA-139 SA-144 SA-161 SA-179</p>
Indicator lights do not light up	<ol style="list-style-type: none"> 1. Fusible link (Blown) 2. GAUGE fuse (Blown) 3. Bulb (Burned out) 4. Wiring or ground (Faulty) 	<p>– – – –</p>
Indicator lights do not light up (Diff. lock control switch RR or FR position)	<ol style="list-style-type: none"> 1. Diff. fuse (Blown) 2. Diff. lock control switch (Faulty) 3. Diff. lock ECU (Faulty) 4. Wiring or ground (Faulty) 	<p>– SA-202 SA-202 –</p>
Differential lock does not operate	<ol style="list-style-type: none"> 1. Diff. lock control switch (Faulty) 2. Diff. lock actuator (Faulty) 3. Diff. lock ECU (Faulty) 4. Differential carrier (Faulty) 5. Wiring or ground (Faulty) 	<p>SA-202 SA-202 SA-202 – –</p>
After differential lock, lock is not released When vehicle speed is higher than approx. 8 km/h (5 mph)	<ol style="list-style-type: none"> 1. Speed sensor (Faulty) 2. Diff. lock ECU (Faulty) 3. Wiring or ground (Faulty) 	<p>BE-38 SA-202 –</p>