

TROUBLESHOOTING

PROBLEM SYMPTOMS TABLE

SA140-02

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 light 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 light lights up.**

Symptom	Suspect Area	See page
Wanders/pulls	1. Tire (Worn or improperly inflated) 2. Wheel alignment (Incorrect) 3. Steering linkage (Loosen or worn) 4. Hub bearing (Loosen or worn) 5. Suspension parts (Worn out) 6. Steering gear (Out of adjustment or broken)	SA-3 SA-5 – SA-9 – –
Bottoming	1. Vehicle (Overloaded) 2. Spring (Weak) 3. Shock absorber (Worn out)	– SA-62 SA-168 SA-59 SA-171
Sways/pitches	1. Tire (Worn or improperly inflated) 2. Stabilizer bar (Bent or broken) 3. Shock absorber (Worn out)	SA-3 SA-77 SA-180 SA-59 SA-171
Front wheel shimmy	1. Tire (Worn or improperly inflated) 2. Wheel (Out of balance) 3. Shock absorber (Worn out) 4. Wheel alignment (Incorrect) 5. Ball joint (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-59 SA-5 SA-68 SA-73 SA-9 – –
Abnormal tire wear	1. Tire (Improperly inflated) 2. Wheel alignment (Incorrect) 3. Suspension parts (Worn out) 4. Shock absorber (Worn out)	SA-3 SA-5 – SA-59 SA-171
Noise in front differential	1. Oil level (Low or wrong grade) 2. Excessive backlash between pinion and ring gear 3. Ring, pinion or side gears (Worn or chipped) 4. Pinion shaft bearing (Worn) 5. Side bearing (Worn)	SA-32 SA-37 SA-37 SA-37 SA-37
Oil leak from front differential	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 (Loose or damaged) 5. Side gear shaft (Damaged)	SA-32 SA-37 SA-37 SA-37 SA-37

Noise in rear axle	1. Oil level (Low or wrong grade) 2. Excessive backlash between pinion and ring gear 3. Ring, pinion or side gears (Worn or chipped) 4. Pinion shaft bearing (Worn) 5. Axle shaft bearing (Worn)	SA-92 SA-99 SA-118 SA-140 SA-99 SA-118 SA-140 SA-99 SA-118 SA-140 SA-80
Oil leak from rear axle	1. Oil seal (Worn or damaged) 2. Rear axle housing (Cracked)	SA-80 –
Oil leak from rear differential	1. Oil level (Too high or wrong grade) 2. Oil seal (Worn or damaged) 3. Companion flange (Loosen or damaged)	SA-92 SA-92 SA-99 SA-118 SA-140
Diff. lock Indicator lights do not light up	1. Fusible link (Blown) 2. GAUGE fuse (Blown) 3. Bulb (Burned out) 4. Wiring or ground (Faulty)	– – – –
Diff. lock Indicator lights do not light up (Diff. lock control switch RR position)	1. Diff. fuse (Blown) 2. Diff. lock control switch (Faulty) 3. Diff. lock ECU (Faulty) 4. Wiring or ground (Faulty)	– SA-160 SA-160 –
Differential lock does not operate	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)	SA-160 SA-160 SA-160 – –
After differential lock, lock is not released When vehicle speed is higher than approx. 8 km/h (5 mph)	1. Speed sensor (Faulty) 2. Diff lock ECU (Faulty) 3. Wiring or ground (Faulty)	SA-160 SA-160 –