

TROUBLESHOOTING

PROBLEM SYMPTOMS TABLE

SA1U7-02

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 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.

Symptom	Suspect Area	See page
Wander/ pulls	1. Tires: worn or improperly inflated 2. Wheel alignment: incorrect 3. Steering linkage: loosen or worn 4. Hub bearings: loosen or worn 5. Steering gear: out of adjustment or broken	SA-3 SA-5 SR-47 SA-9 SR-41
Bottoming	1. Vehicle: overloaded 2. Spring weak 3. Shock absorber: worn out	– SA-50 SA-50
Sways/ pitches	1. Tires: worn or improperly inflated 2. Stabilizer bar: bent or broken 3. Shock absorber: worn out	SA-3 SA-61 SA-50
Front wheel shimmy	1. Tires: worn or improperly inflated 2. Wheels: out of balance 3. Shock absorber: worn out 4. Wheel alignment: incorrect 5. Hub bearings: loosen or worn 6. Steering linkage: loosen or worn 7. Steering gear: out of adjustment or broken	SA-3 SA-3 SA-50 SA-3 SA-8 SR-45 SR-38
Abnormal tire wear	1. Tires: worn or improperly inflated 2. Wheel alignment: incorrect 3. Suspension parts: worn out 4. Shock absorber: worn out	SA-3 SA-3 – SA-50
Noise in front differential	1. Oil level: low or wrong grade 2. Excessive backlash between pinion and ring gear 3. Ring, pinion ro side gears: worn or chipped 4. Pinion shaft bearing: worn 5. Side bearing: worn 6. Differential bearing: loosen or worn	SA-22 SA-30 SA-30 SA-30 SA-30 SA-30
Oil leak from front differential	1. Oil level: too high or wrong grade 2. Drive pinion oil seal: worn or damaged 3. Side gear oil seal: worn or damaged 4. Companion flange: loosen or damaged 5. Side gear shaft: damaged	SA-22 SA-30 SA-30 SA-30 SA-30
Noise in rear axle	1. Oil level: low or wrong grade 2. Excessive backlash between pinion and ring gear 3. Ring, pinion ro side gears: worn or chipped 4. Pinion shaft bearing: worn 5. Axle shaft bearing: worn 6. Differential bearing: loosen or worn	SA-74 SA-88 SA-88 SA-88 SA-88 SA-88
Oil leak from rear axle	1. Oil seal: worn or damaged 2. Rear axle housing: cracked	SA-74 –

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-74 SA-74 SA-88
Indicator lights do not light up	1. Fusible link: blown 2. GAUGE fuse: blown 3. Bulb: burned out 4. Wiring or ground: faulty	BE-10 BE-10 BE-50 –
Indicator lights do not light up (Diff. lock control switch RR or FR RR position)	1. DIFF fuse: blown 2. Diff. lock control switch: faulty 3. Diff. lock ECU: faulty 4. Wiring or ground: faulty	BE-10 SA-102 SA-102 –
Differential lock does not operate	1. Diff. lock position switch: faulty 2. Diff. lock actuator: faulty 3. Diff. lock ECU: faulty 4. Differential carrier (Diff. lock): faulty 5. Wiring or ground: faulty	SA-102 SA-102 SA-102 SA-102 –
After differential lock, lock not release When vehicle speed is higher than approx. 8 km/h (5mph)	1. Speed sensor: faulty 2. Diff. lock ECU: faulty 3. Wiring or ground: faulty	BE-50 SA-102 –