

TROUBLESHOOTING

PROBLEM SYMPTOMS TABLE

SA140-05

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 the transfer shift lever is shifted to the L position.
- 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	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) 9. Suspension parts (Worn)	SA-3 SA-5 – SA-10 SR-47 –
Bottoming	1. Vehicle (Overloaded) 2. Spring (Weak) 3. Shock absorber (Worn)	– SA-64 SA-170 SA-61 SA-173
Sways/pitches	1. Tire (Worn or improperly inflated) 2. Stabilizer bar (Bent or broken) 3. Shock absorber (Worn)	SA-3 SA-79 SA-183 SA-61 SA-173
Front wheel shimmy	1. Tire (Worn or improperly inflated) 2. Wheel (Out of balance) 3. Shock absorber (Worn) 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-61 SA-5 SA-70 SA-75 SA-10 – SR-47
Abnormal tire wear	1. Tire (Improperly inflated) 2. Wheel alignment (Incorrect) 3. Shock absorber (Worn) 4. Suspension parts (Worn)	SA-3 SA-5 SA-61 SA-173 –
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-34 SA-39 SA-39 SA-39 SA-39
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 (Loosen or damaged) 5. Side gear shaft (Damaged)	SA-34 SA-39 SA-39 SA-39 SA-39

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-94 SA-101 SA-120 SA-142 SA-101 SA-120 SA-142 SA-101 SA-120 SA-142 SA-82
Oil leak from rear axle	1. Oil seal (Worn or damaged) 2. Rear axle housing (Cracked)	SA-82 –
Oil leak from rear differential	1. Oil level (Too high or wrong grade) 2. Rear differential front oil seal (Worn or damaged) 3. Companion flange (Loosen or damaged)	SA-94 SA-94 SA-101 SA-120 SA-142
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-162 SA-162 –
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-162 SA-162 SA-162 – –
After differential lock, lock is not released When vehicle speed is at 8 km/h (5 mph) or more	1. Speed sensor (Faulty) 2. Diff. lock ECU (Faulty) 3. Wiring or ground (Faulty)	SA-162 SA-162 –