TROUBLESHOOTING

PROBLEM SYMPTOMS TABLE

SA090-02

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 lights up.**

Symptom	Suspect Area	See page
Wanders/pulls	1. Tires (Worn or improperly inflated)	SA–4 SA–6
	2. Wheel alignment (Incorrect)	SA–8 SA–12
	3. Steering linkage (Loosen or worn)	–
	4. Hub bearings (Loosen or worn)	SA–17
	5. Suspension parts (Worn out)	–
	6. Steering gear (Out of adjustment or broken)	–
Bottoming	1. Vehicle (Overloaded)	–
	2. Spring (Weak)	SA–111 SA–116 SA–263
	3. Shock absorber (Worn out)	SA–102 SA–106 SA–258
Sways/pitches	1. Tires (Worn or improperly inflated)	SA–4 SA–6
	2. Stabilizer bar (Bent or broken)	SA–157 SA–160
	3. Shock absorber (Worn out)	SA–102 SA–106 SA–258
Front wheel shimmy	1. Tires (Worn or improperly inflated)	SA–4 SA–6
	2. Wheels (Out of balance)	SA–4 SA–6
	3. Shock absorber (Worn out)	SA–102 SA–106
	4. Wheel alignment (Incorrect)	SA–8 SA–12
	5. Ball joints (Worn)	SA–141 SA–145 SA–149 SA–153
	6. Hub bearings (Loosen or worn)	SA–17
	7. Steering linkage (Loosen or worn)	–
	8. Steering gear (Out of adjustment or broken)	–

Abnormal tire wear	1. Tires (Improperly inflated)	SA–4 SA–6
	2. Wheel alignment (Incorrect)	SA–8 SA–12
	3. Suspension parts (Worn out)	–
	4. Shock absorber (Worn out)	SA–102 SA–106 SA–258
Noise in front differential	1. Oil level (Low or wrong grade)	SA–52
	2. Excessive backlash between pinion and ring gear	SA–55 SA–74
	3. Ring, pinion or side gears (Worn or chipped)	SA–55 SA–74
	4. Pinion shaft bearing (Worn)	SA–55 SA–74
	5. Side bearing (Worn)	SA–55 SA–74
	6. Differential bearing (Loosen or worn)	SA–55 SA–74
Oil leak from front differential	1. Oil level (Too high or wrong grade)	SA–52
	2. Front differential rear oil seal (Worn or damaged)	SA–55 SA–74
	3. Side gear oil seal (Worn or damaged)	SA–55 SA–74
	4. Companion flange (Loose or damaged)	SA–55 SA–74
	5. Side gear shaft (Damaged)	SA–55 SA–74
Noise in rear axle	1. Oil level (Low or wrong grade)	SA–171
	2. Excessive backlash between pinion and ring gear	SA–176 SA–193 SA–211 SA–231
	3. Ring, pinion or side gears (Worn or chipped)	SA–176 SA–193 SA–211 SA–231
	4. Pinion shaft bearing (Worn)	SA–176 SA–193 SA–211 SA–231
	5. Axle shaft bearing (Worn)	SA–163
	6. Differential bearing (Loosen or worn)	SA–176 SA–193 SA–211 SA–231
Oil leak from rear axle	1. Oil seal (Worn or damaged)	SA–163
	2. Rear axle housing (Cracked)	–
Oil leak from rear differential	1. Oil level (Too high or wrong grade)	SA–52
	2. Oil seal (Worn or damaged)	SA–52
	3. Companion flange (Loosen or damaged)	SA–176 SA–193 SA–211 SA–231

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Indicator lights do not light up	1. Fusible link (Blown) 2. GAUGE fuse (Blown) 3. Bulb (Burned out) 4. Wiring or ground (Faulty)	– – – –
Indicator lights do not light up (Diff. lock control switch RR or FR position)	1. Diff. fuse (Blown) 2. Diff. lock control switch (Faulty) 3. Diff. lock ECU (Faulty) 4. Wiring or ground (Faulty)	– SA–252 SA–254 –
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–254 SA–254 SA–254 – –
After differential lock, lock 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–254 SA–254 –