TROUBLESHOOTING (Rigid Front Suspension) PROBLEM SYMPTOMS TABLE

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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 L4 position.

Symptom	Suspect Area	See page
Wanders/pulls	1. Tire (Worn or improperly inflated)	SA-5
	2. Wheel alignment (Incorrect)	SA-7
	3. Steering linkage (Loosen or worn)	-
	4. Hub bearing (Loosen or worn)	SA-14
	5. Suspension parts (Worn out)	-
	6. Steering gear (Out of adjustment or broken)	_
	1. Vehicle (Overloaded)	_
	2. Spring (Weak)	SA-119
Bottoming		SA-269
	3. Shock absorber (Worn out)	SA-122
		SA-272
	Tire (Worn or improperly inflated)	SA-5
	2. Stabilizer bar (Bent or broken)	SA-148
Sways/pitches		SA-297
	3. Shock absorber (Worn out)	SA-122
		SA-272
	Tire (Worn or improperly inflated)	SA-5
	2. Wheel (Out of balance)	SA-5
	3. Shock absorber (Worn out)	SA-122
	4. Wheel alignment (Incorrect)	SA-7
Front wheel shimmy	5. Ball joint (Worn)	_
·		_
	6. Hub bearing (Loosen or worn)	SA-14
	7. Steering linkage (Loosen or worn)	_
	8. Steering gear (Out of adjustment or broken)	_
	1. Tire (Improperly inflated)	SA-5
Abnormal tire wear	2. Wheel alignment (Incorrect)	SA-5
	3. Suspension parts (Worn out)	-
	4. Shock absorber (Worn out)	SA-122
		SA-272
Noise in front differential	Oil level (Low or wrong grade)	SA-57
	2. Excessive backlash between pinion and ring gear	SA-67
	3. Ring, pinion or side gears (Worn or chipped)	SA-67
	4. Pinion shaft bearing (Worn)	SA-67
	5. Side bearing (Worn)	SA-67
Oil leak from front differential	1. Oil level (Too high or wrong grade)	SA-57
	2. Front differential rear oil seal (Worn or damaged)	SA-57
	3. Side gear oil seal (Worn or damaged)	SA-67
	4. Companion flange (Loose or damaged)	SA-67
	5. Side gear shaft (Damaged)	SA-67
	Oil seal (Worn or damaged)	SA-154
Oil leak from rear axle	Rear axle housing (Cracked)	

1. Oil level (Low or wrong grade) 2. Excessive backlash between pinion and ring gear 3. Ring, pinion or side gears (Worn or chipped) 3. Ring, pinion or side gears (Worn or chipped) 3. Ring, pinion or side gears (Worn or chipped) 3. Ring, pinion or side gears (Worn or chipped) 3. A-233 4. Pinion shaft bearing (Worn) 3. A-233 5. Axle shaft bearing (Worn) 3. Companion flange (Loosen or damaged) 3. Diff. lock Indicator lights do not light up 4. Wiring or ground (Faulty) 5. Diff. lock Indicator lights do not light up 5. Diff. lock control switch RR or FR/RR position) 5. Diff. lock control switch (Faulty) 5. A-253 5. Axle shaft bearing (Worn) 6. A-233 6. Diff. lock bearing (Worn) 6. A-233 6. Diff. lock control switch (Faulty) 6. A-253 6. Diff. lock control switch RR or FR/RR position) 6. A-253 6. Diff. lock control switch (Faulty) 6. A-253 6. Diff. lock control switch RR or FR/RR position) 6. A-253 6. Diff. lock control switch (Faulty) 6. A-253 6. Diff. lock control switch RR or FR/RR position) 6. A-253 6. Diff. lock control switch (Faulty) 6. A-253 6. Diff. lock control			
SA-210 SA-233		1. Oil level (Low or wrong grade)	SA-179
SA-233 SA-187 SA-210 SA-233		2. Excessive backlash between pinion and ring gear	SA-187
Noise in rear differential 3. Ring, pinion or side gears (Worn or chipped) \$A-187 \$SA-210 \$SA-233 4. Pinion shaft bearing (Worn) \$SA-187 \$SA-210 \$SA-233 5. Axle shaft bearing (Worn) \$SA-154 1. Oil level (Too high or wrong grade) 2. Oil seal (Worn or damaged) 3. Companion flange (Loosen or damaged) \$SA-179 \$SA-210 \$SA-179 3. Companion flange (Loosen or damaged) \$SA-187 \$SA-210 \$SA-233 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 2. Diff. lock control switch (Faulty) \$SA-253			SA-210
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4. Pinion shaft bearing (Worn) 4. Pinion shaft bearing (Worn) 5. Axle shaft bearing (Worn) 5. Axle shaft bearing (Worn) 7. Oil level (Too high or wrong grade) 7. Oil seal (Worn or damaged) 8. A-179 9. Oil seal (Worn or damaged) 8. A-179 9. Oil seal (Worn or damaged) 9. A-187 9. A-210 9. SA-233 1. Fusible link (Blown) 9. GAUGE fuse (Blown) 9. GAUGE fuse (Blown) 9. Wiring or ground (Faulty) 1. Diff. lock Indicator lights do not light up 1. Diff. lock lock Indicator lights do not light up 1. Diff. lock control switch (Faulty) 9. SA-253	Noise in rear differential	3. Ring, pinion or side gears (Worn or chipped)	SA-187
4. Pinion shaft bearing (Worn) SA-187 SA-210 SA-233 S. Axle shaft bearing (Worn) 1. Oil level (Too high or wrong grade) SA-179 SA-179 SA-179 SA-179 SA-179 3. Companion flange (Loosen or damaged) SA-187 SA-210 SA-233 1. Fusible link (Blown) SA-233 2. GAUGE fuse (Blown) SA-253			SA-210
SA-210 SA-233 5. Axle shaft bearing (Worn) SA-154 1. Oil level (Too high or wrong grade) SA-179 2. Oil seal (Worn or damaged) SA-179 3. Companion flange (Loosen or damaged) SA-187 SA-210 SA-210 SA-233 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 2. Diff. lock Indicator lights do not light up 2. Diff. lock Indicator lights do not light up 2. Diff. lock Control switch (Faulty) SA-253			SA-233
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5. Axle shaft bearing (Worn) 1. Oil level (Too high or wrong grade) 2. Oil seal (Worn or damaged) 3. Companion flange (Loosen or damaged) SA-179 SA-179 3. Companion flange (Loosen or damaged) SA-210 SA-233 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 1. Diff. fuse (Blown) 2. Diff. fuse (Blown) 3. Bulb (Burned out) 4. Wiring or ground (Faulty) 1. Diff. fuse (Blown) 2. Diff. lock control switch (Faulty) SA-253			SA-210
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2. Oil seal (Worn or damaged) 3. Companion flange (Loosen or damaged) SA-187 SA-210 SA-233 1. Fusible link (Blown) 2. GAUGE fuse (Blown) 3. Bulb (Burned out) 4. Wiring or ground (Faulty) 1. Diff. lock Indicator lights do not light up 2. Diff. lock Indicator lights do not light up 3. Diff. lock Control switch (Faulty)		5. Axle shaft bearing (Worn)	SA-154
Oil leak from rear differential 3. Companion flange (Loosen or damaged) SA-187 SA-210 SA-233 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 1. Diff. fuse (Blown) 2. Diff. lock control switch (Faulty) SA-253		1. Oil level (Too high or wrong grade)	SA-179
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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) 1. Diff. fuse (Blown) 2. Diff. lock Indicator lights do not light up 2. Diff. lock control switch (Faulty) SA-253	Oil leak from rear differential	3. Companion flange (Loosen or damaged)	SA-187
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) 1. Diff. fuse (Blown) 2. Diff. lock Indicator lights do not light up 2. Diff. lock control switch (Faulty) SA-253			SA-210
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3. Bulb (Burned out) 4. Wiring or ground (Faulty) 1. Diff. lock Indicator lights do not light up 2. Diff. lock control switch (Faulty) SA-253	Diff. lock Indicator lights do not light up	1. Fusible link (Blown)	_
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Diff. lock Indicator lights do not light up 2. Diff. lock control switch (Faulty) SA-253		4. Wiring or ground (Faulty)	-
		1. Diff. fuse (Blown)	-
(Diff. lock control switch RR or FR/RR position) 3. Diff. lock ECU (Faulty) SA-253	Diff. lock Indicator lights do not light up	2. Diff. lock control switch (Faulty)	SA-253
	(Diff. lock control switch RR or FR/RR position)	3. Diff. lock ECU (Faulty)	SA-253
4. Wiring or ground (Faulty)		4. Wiring or ground (Faulty)	-
Diff. lock control switch (Faulty) SA-253	Differential lock does not operate	1. Diff. lock control switch (Faulty)	SA-253
2. Diff. lock actuator (Faulty) SA-253		1 1	SA-253
Differential lock does not operate 3. Diff. lock ECU (Faulty) SA-253		3. Diff. lock ECU (Faulty)	SA-253
4. Differential carrier (Faulty)		4. Differential carrier (Faulty)	_
5. Wiring or ground (Faulty)		5. Wiring or ground (Faulty)	_
1. Speed sensor (Faulty) SA-253	After differential had been been also	Speed sensor (Faulty)	SA-253
After differential lock, lock is not released 2. Diff lock ECU (Faulty) SA-253		2. Diff lock ECU (Faulty)	SA-253
When vehicle speed is higher than approx. 8 km/h (5 mph)	When vehicle speed is higher than approx. 8 km/h (5 mph)	3. Wiring or ground (Faulty)	_