

SUSPENSION AND AXLE

TROUBLESHOOTING

Front Axle and Suspension)

Problem	Possible cause	Remedy	Page
Oil leak at front axle	Oil seals damaged or worn Front axle housing cracked	Replace oil seal Repair as necessary	SA-18
Oil leak at pinion shaft	Oil level too high or wrong grade Oil seal worn or damaged Companion flange loose or damaged	Drain and replace oil Replace oil seal Tighten or replace flange	SA-31 SA-28 SA-30
Noises in front axle	Oil level low or wrong grade Excessive backlash between pinion and ring or side gear Ring, pinion or side gears worn or chopped Pinion shaft bearing worn Wheel bearing worn Differential bearing loose or worn	Drain and replace oil Check backlash Inspect gears Replace bearing Replace bearing Tighten or replace bearings	SA-31 SA-35 SA-34 SA-34 SA-14 SA-34
Wanders/pulls	Tires worn or improperly inflated Alignment incorrect Wheel bearing adjusted too tightly Front or rear suspension parts loose or broken Steering linkage loosen or worn Steering gear out of adjustment or broken	Replace tire or inflate tires to proper pressure Check front end alignment Adjust wheel bearing Tighten or replace suspension part Tighten or replace steering linkage Adjust or repair steering gear	SA-4 SA-4 SA-13 SA-49 SR-48 SR-3,35
Bottoming	Vehicle overloaded Shock absorber worn out Springs weak	Check loading Replace shock absorber Replace spring	SA-49 SA-49
Sways/pitches	Tires improperly inflated Stabilizer bar bent or broken Shock absorber worn out	Inflate tires to proper pressure Inspect stabilizer bar Replace shock absorber	SA-4 SA-50 SA-49
Front wheel shimmy	Tires worn or improperly inflated Wheels out of balance Steering damper worn out Shock absorber worn out Alignment incorrect Wheel bearings worn or improperly adjusted Steering knuckle bearing worn Steering linkage loose or worn Steering gear out of adjustment or broken	Replace tire or inflate tires to proper pressure Balance wheels Replace steering damper Replace shock absorber Check front end alignment Replace or adjust wheel bearings Replace bearing Tighten or replace steering linkage Adjust or repair steering gear	SR-48 SA-49 SA-4 SA-13 SA-17 SR-48 SR-3,35
Abnormal tire wear	Tires improperly inflated Shock absorbers worn out Alignment incorrect	Inflate tire to proper pressure Replace shock absorber Check toe-in	SA-4 SA-49 SA-4

TROUBLESHOOTING (Cont'd)

(Rear Axle and Suspension)

Problem	Possible cause	Remedy	Page
Oil leak from rear axle	Oil seals worn or damaged Bearing retainer loose Rear axle housing cracked	Replace oil seal Replace retainer Repair as necessary	SA-56 SA-56
Oil leak from pinion shaft	Oil level too high or wrong grade Oil seal worn or damaged Companion flange loose or damaged	Drain and replace oil Replace oil seal Tighten or replace flange	SA-31 SA-28 SA-30
Noises in rear axle	Oil level low or wrong grade Excessive backlash between pinion and ring or side gear Ring, pinion or side gears worn or chipped Pinion shaft bearing worn Axle shaft bearing worn Differential bearing loose or worn	Drain and replace oil Check backlash Inspect gears Replace bearing Replace bearing Tighten or replace bearings	SA-31 SA-35 SA-34 SA-34 SA-56 SA-34
Bottoming	Vehicle overloaded Shock absorber worn out Springs weak	Check loading Replace shock absorber Replace spring	SA-66 SA-66