

# Steering

## MANUAL STEERING TROUBLE SHOOTING

CONDITION	POSSIBLE CAUSE	CORRECTION
▶ Hard steering	<ol style="list-style-type: none"> <li>1) Incorrect tire pressure</li> <li>2) Gear housing lubricant low</li> <li>3) Insufficient lubrication or abnormal wear on steering linkage</li> <li>4) Seized or damaged ball joints</li> <li>5) Steering shaft too tight</li> <li>6) Steering column incorrectly aligned</li> </ol>	<ol style="list-style-type: none"> <li>1) Inflate tires to correct pressure</li> <li>2) Refill and check for leaks</li> <li>3) Lubricate or replace components</li> <li>4) Replace ball joints</li> <li>5) Readjust</li> <li>6) Realign column</li> </ol>
▶ Drifting	<ol style="list-style-type: none"> <li>1) Incorrect tire pressure</li> <li>2) Loose lug nuts</li> <li>3) Mismatched tires</li> <li>4) Worn or loose wheel bearings</li> <li>5) Brake drag</li> <li>6) Faulty shock absorbers or coil springs</li> <li>7) Pitman arm binding</li> <li>8) Loose steering gear</li> <li>9) Vehicle uneven riding height</li> </ol>	<ol style="list-style-type: none"> <li>1) Inflate tires to correct pressure</li> <li>2) Tighten</li> <li>3) Replace and match</li> <li>4) Replace or tighten</li> <li>5) Check and readjust brakes</li> <li>6) Replace broken or faulty parts</li> <li>7) Adjust or replace arm</li> <li>8) Check for worn parts – replace and adjust</li> <li>9) Adjust level</li> </ol>
▶ Excessive steering wheel play	<ol style="list-style-type: none"> <li>1) Steering wheel shaft loose or worn</li> <li>2) Steering linkage loose or worn</li> <li>3) Worn wheel bearings</li> <li>4) Worn ball joints</li> <li>5) Worm shaft bearing out of adjustment</li> <li>6) Loose steering gear housing</li> </ol>	<ol style="list-style-type: none"> <li>1) Adjust shaft or replace</li> <li>2) Adjust or replace</li> <li>3) Replace bearings</li> <li>4) Replace or adjust ball joints</li> <li>5) Readjust</li> <li>6) Tighten housing</li> </ol>
▶ Steering wheel slides	<ol style="list-style-type: none"> <li>1) Worm shaft or ball damaged</li> <li>2) Sector shaft damaged</li> </ol>	<ol style="list-style-type: none"> <li>1) Replace components</li> <li>2) Replace components</li> </ol>
▶ Vibration or shimmy	<ol style="list-style-type: none"> <li>1) Incorrect tire pressure</li> <li>2) Tire out of balance</li> <li>3) Worn shock absorbers or springs</li> <li>4) Loose steering gear housing</li> <li>5) Loose steering linkage</li> </ol>	<ol style="list-style-type: none"> <li>1) Inflate to correct pressure</li> <li>2) Balance tire</li> <li>3) Replace defective parts</li> <li>4) Tighten</li> <li>5) Adjust or replace linkage</li> </ol>
▶ Noise	<ol style="list-style-type: none"> <li>1) Incorrect tire pressure</li> <li>2) Wheel bearings loose or worn</li> <li>3) Hub caps or rims loose</li> </ol>	<ol style="list-style-type: none"> <li>1) Inflate tires to correct pressure</li> <li>2) Repair or replace</li> <li>3) Tighten or replace</li> </ol>

## POWER STEERING TROUBLE SHOOTING

▶ Hard Steering	<ol style="list-style-type: none"> <li>1) Fluid level low</li> <li>2) Control valve binding</li> <li>3) Kinked or broken hoses</li> <li>4) Fluid lines blocked</li> <li>5) Air in system</li> <li>6) Low pump pressure</li> <li>7) Loose drive belt</li> </ol>	<ol style="list-style-type: none"> <li>1) Add fluid, check for leaks</li> <li>2) Replace or repair control valve</li> <li>3) Straighten or replace</li> <li>4) Check, clean, or replace lines</li> <li>5) Bleed, refill and check for leaks</li> <li>6) Check pump for worn or damaged parts</li> <li>7) Adjust or replace belt</li> </ol>
▶ Noise	<ol style="list-style-type: none"> <li>1) Loose drive belt</li> <li>2) Low fluid</li> <li>3) Faulty valves or pump wear</li> </ol>	<ol style="list-style-type: none"> <li>1) Check, tighten, or replace belt</li> <li>2) Check and add fluid</li> <li>3) Repair or replace</li> </ol>
▶ Excessive steering wheel play	<ol style="list-style-type: none"> <li>1) Control valve binding</li> </ol>	<ol style="list-style-type: none"> <li>1) Repair or replace valve</li> </ol>
▶ Sticking steering wheel	<ol style="list-style-type: none"> <li>1) Control valve binding</li> </ol>	<ol style="list-style-type: none"> <li>1) Repair or replace valve</li> </ol>