

Steering

MANUAL STEERING TROUBLE SHOOTING

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

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▶ Hard Steering	<ol style="list-style-type: none"> 1) Shipping spacers between column tube and shaft or in flexible couplings 2) Fluid level low 3) Control valve binding 4) Kinked or broken hoses 5) Fluid lines blocked 6) Air in system 7) Low pump pressure 8) Loose drive belt 	<ol style="list-style-type: none"> 1) Remove spacers 2) Add fluid, check for leaks 3) Replace or repair control valve 4) Straighten or replace 5) Check, clean, or replace lines 6) Bleed, refill and check for leaks 7) Check pump for worn or damaged parts 8) Adjust or replace belt
▶ Noise	<ol style="list-style-type: none"> 1) Loose drive belt 2) Low fluid 3) Faulty valves or pump wear 	<ol style="list-style-type: none"> 1) Check, tighten, or replace belt 2) Check and add fluid 3) Repair or replace
▶ Excessive steering wheel play	<ol style="list-style-type: none"> 1) Control valve binding 	<ol style="list-style-type: none"> 1) Repair or replace valve
▶ Sticking steering wheel	<ol style="list-style-type: none"> 1) Binding control valve 	<ol style="list-style-type: none"> 1) Repair or replace valve