



Certificate No. GB00454

# Fault Diagnosis Tips for Steering & Suspension



## Abnormal tyre wear - \* Parts available from FAI

PROBABLE CAUSE	REMEDY
Incorrect tyre inflation pressure.	Check and Inflate to recommended air pressure.
Incorrect wheel alignment (camber and toe)	Adjust to factory specifications.
Tyre imbalance (cupped wear)	Balance tyres.
Worn shocks (cupped wear)	Replace shocks or struts.
Loose wheel bearings.	Adjust or replace bearings.
* Worn tie rod ends.	Replace tie rod assemblies.
* Worn rack ends.	Replace rack ends
* Worn ball joints or suspension bushes.	Replace ball joints or bushes.
* Worn strut mounts	Replace strut mounts.
* Bent wishbone	Replace wishbone

## Car runs to one side - \* Parts available from FAI

PROBABLE CAUSE	REMEDY
Uneven tyre pressure.	Check and Inflate to recommended air pressure
Mismatched tyres.	Replace tyres.
Incorrect front wheel alignment setting (caster and camber).	Adjust to factory specifications.
Incorrect rear wheel alignment (adjustment or bent parts).	Adjust to factory specifications or replace parts.
Binding brake.	Check for mechanical or hydraulic problem.
Power steering rack or box defective.	Replace or repair power steering unit.
* Worn/damaged wishbone bushes.	Replace suspension bushes.
* Incorrect wishbone fitted one side	Replace incorrect wishbone

## Steering wheel pull when braking - \* Parts available from FAI

PROBABLE CAUSE	REMEDY
Uneven braking force.	Check for mechanical or hydraulic problem.
Inoperative brake one side	Check for brake faults.
Weak or broken spring.	Replace spring.
Excessive disc brake run-out	Replace both brake discs.
* Worn suspension bushes	Replace bushes.



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## Car wanders from side to side - \* Parts available from FAI

PROBABLE CAUSE	REMEDY
Incorrect front wheel alignment setting (too little positive caster/ excessive toe out).	Adjust to factory specifications.
Low tyre pressure.	Check and Inflate to recommended air pressure.
Loose wheel bearings.	Adjust or replace bearings.
Worn idler arm or pitman arm (where fitted)	Replace idler arm or pitman arm.
* Worn tie rod ends.	Replace tie rod ends
* Worn rack ends.	Replace rack ends
* Worn suspension bushes.	Replace bushes.
* Worn strut mounts.	Replace strut mounts

## Excessive play in steering - \* Parts available from FAI

PROBABLE CAUSE	REMEDY
Loose steering gear (rack or box) adjustment.	Adjust steering gear (rack or box) to specifications.
Loose steering gear (rack or box) mounting	Tighten steering gear mounting bolts/replace mounting bushes.
Loose wheel bearings.	Adjust or replace bearings
Worn idler arm or pitman arm (where fitted)	Replace idler arm or pitman arm.
* Worn tie rod ends.	Replace tie rod ends
* Worn rack ends.	Replace rack ends
* Worn steering coupling.	Replace steering coupling

## Heavy steering - \* Parts available from FAI

PROBABLE CAUSE	REMEDY
Low tyre pressure.	Check and Inflate to recommended air pressure.
Binding in steering linkage.	Check for interference, lack of lubricant.
Tight steering gear (rack or box) adjustment	Adjust steering gear (rack or box) to factory specifications.
Incorrect front wheel alignment specifications (excessive toe in).	Adjust to factory specifications. (too much positive caster).
Failure in power steering system.	Check fluid level, belt, pump, hoses, and pressure valve.
* Worn strut mount bearings.	Replace strut mount bearings



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## Front wheel shimmy (steering wheel shake) - \* Parts available from FAI

PROBABLE CAUSE	REMEDY
Tyre imbalance.	Balance tyres.
Bent wheel.	Replace wheel.
Loose steering gear (rack or box) adjustment.	Adjust steering gear (rack or box) to specifications.
Loose steering gear (rack or box) mounting.	Tighten steering gear mounting bolts/replace mounting bushes.
Worn or loose wheel bearings.	Adjust or replace bearings.
Incorrect wheel alignment (caster angle).	Adjust to factory specifications.
Worn steering damper (where fitted)	Replace steering damper.
* Worn tie rod ends.	Replace tie rod ends.
* Worn rack ends.	Replace rack ends

## Clunking noise over bumps - \* Parts available from FAI

PROBABLE CAUSE	REMEDY
Loose shock absorber mountings.	Tighten nuts, or replace bushes.
Loose strut mounting nut.	Tighten or replace mounting nut.
Worn shocks or struts.	Replace struts or shocks.
* Worn link rods	Replace link rods
* Deteriorated suspension bushes.	Replace bushes.
* Worn ball joints	Replace ball joints

## Excessive body roll - \* Parts available from FAI

PROBABLE CAUSE	REMEDY
Anti-roll bar broken	Replace anti-roll bar.
* Link rod failure.	Replace link rod.