

MECHANIC STUDY GUIDE
Front End, Suspension & Steering Systems
Automobile & Light Truck Repair

Listed below are a number of items and subjects which make up the mechanic certification test identified above. An individual's ability to pass the certification test will depend upon the amount of knowledge the person has concerning these items.

Alignment Diagnosis - 34%

“Toe” adjustment procedures
Caster adjustment procedures for various suspension systems
Camber understanding
Camber adjusting procedures for various suspension systems
Total alignment procedures
Caster understanding
Strut suspension alignments

Tire Wear Diagnosis - 10%

Tire wearing angles
Inside tread wear only
Cupping
Feathered outside edge wear
Wear on both inside & outside of tire

Suspension Diagnosis - 18%

Ball joint diagnosis
Measuring curb height
Torsion bar remove & replace
Ball joint remove & replace procedure
MacPherson suspensions
Automatic leveling systems

Steering Diagnosis - 18%

Rack & pinion diagnosis Power assist diagnosis
Tie rod end diagnosis
Steering gear adjustment
Steering linkage diagnosis
Power steering system bleeding

Driveability Diagnosis - 16%

Pulling diagnosis
Road crown compensation
Wandering or darting diagnosis
Shimmy & bounce diagnosis
Steering wheel centering

Miscellaneous - 4%

Brake rotor R & R precautions
Wheel bearing adjustment

SAMPLE QUESTION:

A car has excessive lean on turns (body roll).
This could be caused by:

- A. Bad shocks.
- B. Worn sway bar bushings.
- C. Weak springs.
- D. All of the above.

ANSWER: D