

Rear Suspensions

There are numerous rear suspension designs, many of which are variations on the SLA, MacPherson strut, multi-link, or modified strut designs. On light trucks, a solid axle with leaf springs is common. Some front-wheel-drive rear suspensions use a **track bar** or **track rod** to prevent lateral or side-to-side movement of the rear axle.



Left: Multi-link rear suspension. This design has two lower control arms. Right: Modified MacPherson strut rear suspension. Note the tie rod end bolted to the control arm, used to adjust rear toe.



Left: Solid axle rear suspension with leaf springs. Right: Solid axle "trailing arm" rear suspension for a front-wheel-drive model. Note the track bar directly above the axle.

Suspension Leveling Systems

Some vehicles have the capability to adjust their suspensions to maintain the proper attitude (ride height) of the vehicle regardless of how they are loaded. They use air shocks or air springs and an onboard compressor to adjust the suspension's height and rate.

Early leveling systems were operated with a manual switch. Later systems are automatic and rely on height sensors to determine the vehicle's attitude. The compressor is switched on, or air is bled out accordingly. System designs and operations vary.



A height sensor mounted on the frame. The actuating arm moves up or down with the suspension, varying a voltage signal at the electrical connection.

Steering And Suspension Study Guide



The Study Group

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ASE-A4 Suspension and Steering Study Guide Automotive Video Incorporated,1999 The ASE A4 Certification Test covers what you need to know about Steering and Suspension Systems The test covers extensive steering suspension wheel alignment and wheel and tire diagnostic information including symptom descriptions and their causes In addition to the easy to read text the A4 Suspension Steering Self Study Guide contains dozens of useful illustrations Dave also shows you how to use different diagnostic tools to help you understand how to properly diagnosis and repair steering systems using the VCI scan tool the Bartec 300 the Matco TPR tool and much more ASE A4 Study Guide gives you the information you need to know to pass the ASE A4 Steering and Suspension Systems test Your Training Starts Here *Resources in Education* ,1997

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