

# Steering and Suspension Systems Study Guide

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## Introduction

A vehicle chassis is made up of several systems that all work in unison to provide a safe and comfortable ride. The chassis includes the frame (or unibody), brake system, steering and suspension systems, and wheel assemblies.

## Steering Systems

The steering system works with the suspension system to provide directional control with a comfortable amount of steering effort. It must do this while allowing for the necessary movement in the vehicle's suspension system. Some parts serve both systems. The steering system consists of a steering gear, steering linkage, a steering column and a steering wheel. Two types of steering systems are widely used in today's vehicles: **rack-and-pinion steering** and **"conventional" steering**.

### Rack-and-pinion Steering

Rack-and-pinion steering transmits circular motion from the steering wheel to a pinion that meshes with teeth on a flat rack. The pinion moves the rack in a linear direction, steering the wheels. Rack-and-pinion steering can be found on cars, mini-vans and small SUVs. It is simpler and less expensive to produce than conventional steering systems.

### Conventional Steering

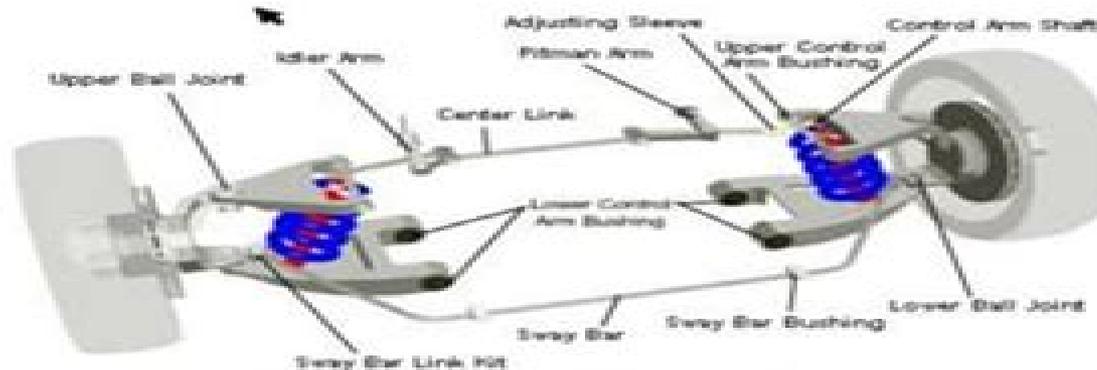
Conventional steering transmits the circular motion from the steering wheel through a gear that moves an arm through a back-and-forth arc, acting on a set of linkages to steer the wheels. It is also referred to as "recirculating ball" or "worm gear" steering, for the type of gear it uses, or "parallelogram," "trapezium," or simply "linkage" steering, for the shape formed by the linkage set. This type of system can be found on most rear wheel drive cars, light trucks and full size vans.

## Suspension Systems

The suspension system supports the vehicle, allowing the wheels to move up and down over irregularities in the road. It cushions the ride for the frame, engine, transmission, and passengers, while keeping the tires in firm contact with the road under all conditions. Suspension system parts include springs, dampening devices (shocks), ball joints, steering knuckles, and spindles or axles. Two types of front suspension systems are widely used in today's vehicles: the **MacPherson strut suspension** and the **short/long arm (SLA) suspension**. Early automobiles and some medium- and heavy-duty trucks and four-wheel drive vehicles have a **straight axle (I-beam)** front suspension, and up until recently some light trucks were built with a variation called a **beam I-beam suspension**. Many rear suspensions still use a straight axle.

### Short/Long Arm (SLA) Suspension

Each side of the SLA suspension consists of two control arms attached to the frame at one end and the steering knuckle at the other. The arms pivot on ball joints at the steering knuckle, and on rubber bushings at the frame. A variety of spring arrangements may be used; a coil spring placed between the two arms is the most common, but the spring may be mounted over the upper control arm, or it may be a torsion bar attached to the lower control arm. Using a shorter upper arm allows the track width to remain constant at the road surface during spring compression, eliminating the tire slide or scrub that would occur if the arms were of the same length. A conventional steering system is commonly used with this suspension, which may also be referred to as a conventional suspension.



Conventional, SLA Suspension with Conventional Steering

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