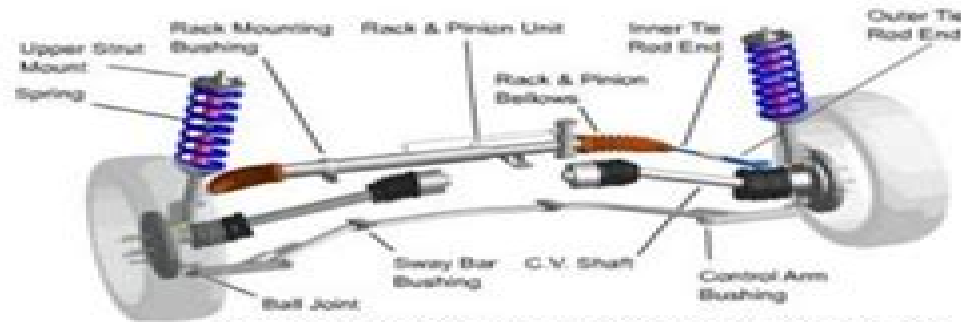


**MacPherson Strut Suspension**

The MacPherson strut suspension combines a coil spring and a shock absorber into a single unit on each side. The strut is attached to the body at the top and to a lower control arm through a ball joint at the bottom. The other end of the control arm attaches to the frame and pivots on rubber bushings. The steering knuckle is rigidly mounted to the strut. This suspension is lighter and smaller than the SLA design, and can be found on smaller vehicles with rack-and-pinion steering. It is commonly used on front-wheel drive cars.



**MacPherson Strut Suspension with Rack-and-pinion Steering**

This course will cover these steering and suspension systems in depth, and their service, as well as other aspects of steering and suspension service. Subjects covered will include:

- Steering system design
- Diagnosing steering system problems
- Inspecting and replacing steering linkage components
- Steering column inspection and repair
- Front suspension system designs
- SLA suspension system diagnosis and service
- MacPherson strut system diagnosis and service
- Design and operating principles of rear suspensions
- Wheel alignment / steering and suspension diagnosis

**Course Objectives**

Upon completion of this course, technicians should understand and be able to apply their knowledge of:

- Identifying the components and operating principles of different types of steering systems
- Diagnosing steering systems and determining needed repairs
- Identifying and replacing worn steering linkage components
- Diagnosing and repairing steering columns
- Identifying the components and operating principles of various types of front suspension systems
- Determining the condition of suspension system components
- Replacing worn suspension system components
- Identifying and replacing worn MacPherson strut suspension components
- Identifying the components and operating principles of various types of rear suspension systems; diagnosing and replacement
- Wheel alignment angles and correction, diagnosing wheel alignment problems

**Using the Job Sheets**

As you proceed through the online module, on some pages you will find links that will open a window with a printable procedure or job sheet containing hands-on lab activities based on the NATEF standards related to the content you are studying. When you come upon a procedure or job sheet link, you can click on it to access the material and print the job sheet for completion in the shop. See your instructor for guidance in completing the job sheets. Some job sheets will require supplemental materials such as a vehicle service manual, equipment manual, or other references. Your instructor may prefer you to print the entire set of job sheets and assign them when appropriate, or your instructor may provide you with the printed job sheets to complete. You can view and print any or the entire set of job sheets for this from the online course.

# Guide To Steering And Suspension Study

**Rosina Ehmann**



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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 ,1998 *A4 Steering and Suspension* Mat,2016-03 *Steering and Suspension Test T5* ,1999\* Transdisciplinary Engineering Methods for Social Innovation of Industry 4.0 M. Peruzzini,M. Pellicciari,C. Bil,2018-09-14 The concept of concurrent engineering CE was first developed in the 1980s Now often referred to as transdisciplinary engineering it is based on the idea that different phases of a product life cycle should be conducted concurrently and initiated as early as possible within the Product Creation Process PCP The main goal of CE is to increase the efficiency and effectiveness of the PCP and reduce errors in later phases as well as incorporating considerations including environmental implications for the full lifecycle of the product It has become a substantive methodology in many industries and has also been adopted in the development of new services and service support This book presents the proceedings of the 25th ISPE Inc International Conference on Transdisciplinary Engineering held in Modena Italy in July 2018 This international conference attracts researchers industry experts students and government representatives interested in recent transdisciplinary engineering research advancements and applications The book contains 120 peer reviewed papers selected from 259 submissions from all continents of the world ranging from the theoretical and conceptual to papers addressing industrial best practice and is divided into 11 sections reflecting the themes addressed in the conference program and addressing topics as diverse as industry 4 0 and smart manufacturing human centered design modeling simulation and virtual design and knowledge and data management among others With an overview of the latest research results product creation processes and related methodologies this book will be of interest to researchers design practitioners and educators alike **Research Reports of the National Highway Traffic Safety Administration; a Bibliography. 1967-June 1971** ,1971 Technical Reports of the National Highway Traffic Safety Administration United States. National Highway Traffic Safety Administration,1974 **Subject Guide to Books in Print** ,1984 *Monthly Catalog of United States Government Publications* ,1975 **Suspension & Steering, Test A4** ,1996 *Trade and Industrial Education* ,1972 **Trade and Industrial Education; Instructional Materials** Ohio State University. Center for Vocational and Technical Education,1972 Advances in Dynamics of Vehicles on Roads and Tracks III Wei Huang,Mehdi Ahmadian,2024-10-31 This book offers a timely snapshot of research and development in rail vehicle

dynamics Gathering a set of peer reviewed contributions to the 28th Symposium of the International Association of Vehicle System Dynamics IAVSD which was held on August 21 25 2023 in Ottawa Canada this first volume of the proceedings covers a broad range of topics relating to rail vehicles Topics covered include modelling and simulation as well as design control and monitoring of rail vehicles and strategies to improve safety performance and ride comfort among others Overall this book provides academics and professionals with a timely reference on state of the art theories and methods that can be used to understand analyze and improve rail vehicle safety and performance in a wide range of operating conditions S5

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