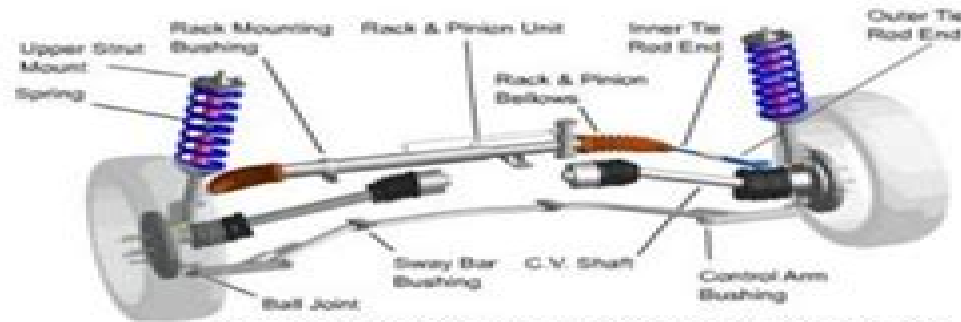


MacPherson Strut Suspension

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.

Steering And Suspension Study Guide

Chris Johanson, Martin T. Stockel



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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 Suspension and Steering Chek-Chart,Chek-Chart Staff,1998-09-01 Diagnosis and repair for steering suspension and alignment Line drawings diagrams charts **ASE Test Preparation- A4 Suspension and Steering** Cengage Learning Delmar,Delmar Publishers,2006 This guide is designed to prepare you for the test of suspension and steering give you an understanding of what you are expected to be able to do in each task and take you through sample test questions formatted in the same way the ASE tests are structured **Suspension and Steering (A4)** Delmar Publishers,2011-06 The fifth edition of Delmar s Automotive Service Excellence ASE Test Preparation Manual for the A4 SUSPENSION AND STEERING certification exam contains an abundance of content designed to help you successfully pass your ASE exam This manual will ensure that you not only understand the task list and therefore the content your actual certification exam will be based upon but also provides descriptions of the various types of questions on a typical ASE exam as well as presents valuable test taking strategies enabling you to be fully prepared and confident on test day **Auto Suspension and Steering** Chris Johanson,Martin T Stockel,2014-01-31 The Auto Suspension and Steering Workbook is designed to reinforce your understanding of the important information presented in the textbook To accomplish this task the workbook utilizes several types of questions and illustrated exercises to highlight key aspects relating to the operation construction design maintenance troubleshooting and repair of the suspension and steering systems found on late model cars and light trucks **Auto Suspension and Steering Technology** Chris Johanson,Martin T. Stockel,2004 Auto Suspension and Steering provides a thorough explanation of the design construction and operation of these modern vehicle systems Basic theory is followed by detailed instructions for logically diagnosing repairing and replacing suspension and steering components Use of the latest diagnostic equipment for troubleshooting is emphasized This text is a valuable resource for anyone who needs a thorough understanding of today s automotive suspension and steering systems including those preparing for ASE Certification Test A4 Suspension and Steering The text is correlated to the Suspension and Steering section of the NATEF Task List Detailed information on troubleshooting and servicing electronically controlled suspension and steering systems is included Wheel alignment procedures are covered in depth Optional digital platform including premium online text shop manual workbook videos animations instructional content

and course management tools is available **A4 Steering and Suspension** Mat,2016-03 **Auto Suspension and Steering** Chris Johanson,2007-01 Helps the student obtain the knowledge and hands on skills needed to successfully diagnose service and repair all types of automotive suspension and steering systems **CDL Study Guide 2025-2026** Jake Nolan, Have you ever wondered what it takes to safely operate a large commercial vehicle on busy highways ensuring not only your safety but also the well being of those around you The responsibility of driving commercial vehicles goes far beyond just knowing how to steer it requires specialized knowledge skill and understanding of complex regulations For those seeking a career in the transportation industry achieving a Commercial Driver s License CDL is the first step towards becoming a skilled and responsible driver This comprehensive guide offers everything you need to know to prepare for the CDL exam and embark on a successful career Whether you re new to the trucking world or are looking to brush up on the essentials this resource covers the critical areas required to pass both the written and skills tests It delves into the various CDL classes and endorsements the handling of hazardous materials the proper operation of air brake systems and much more Beyond the basics of test preparation this guide also focuses on providing practical advice and techniques for becoming a safe confident and professional driver You ll learn how to navigate the complexities of combining vehicles maneuvering large trucks and maintaining safety on the road under different conditions Each chapter is designed to break down the most challenging aspects of commercial driving offering expert insights tips and strategies that will help you succeed not only in passing the CDL test but also in your day to day driving career In addition to the technical skills and knowledge the guide emphasizes the importance of responsible driving and safety As a commercial driver you re tasked with more than just getting from one place to another You re entrusted with the safety of your cargo your passengers and everyone else on the road This book helps you understand the gravity of this responsibility while giving you the tools to handle the challenges that come with it Whether you re preparing for the exam or already on your journey as a commercial driver this guide will serve as a valuable resource to help you succeed and maintain the highest standards of safety and professionalism on the road **Wisconsin Motorist's Handbook and Study Guide** ,2000 **CDL Study Guide: Complete CDL Practice Test Study Guide** CDL Digest, This CDL Practice Test Study Guide combines all 8 of our individual CDL Practice Test Study Guides into 1 complete written exam practice test study guide that covers General Knowledge Air Brakes Combination Vehicles Double Triple Trailers Hazmat Tank Vehicle Passenger and School Bus **Resources in Education** ,1997 **CDL Study Guide: General Knowledge** CDL Digest, This CDL practice test study guide contains general knowledge and safe driving information that all commercial drivers should know regardless of what class of vehicle they intend to operate General Knowledge written exam practice test questions and answers *Steering and Suspension Test T5* ,1999* [ASVAB Study Guide 2025-2026](#) Bennett Logan Huffman,Alton Lee Scott, ASVAB Study Guide 2025 2026 Comprehensive Test Prep with 1 400 Practice Questions Complete Section Reviews Score higher on the ASVAB with the ultimate preparation resource designed for military test takers This

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