



# Today's Technician: Automotive Suspension & Steering Classroom Manual and Shop Manual

By Mark Schnubel

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This text covers both the theory and procedures related to the diagnosis and service of automotive suspension and steering systems, using a unique two-volume approach to optimize learning in both the classroom and the auto shop. The first volume (Classroom Manual) details the theory and application of suspension and steering systems, while the second (Shop Manual) covers real-world symptoms, diagnostics, and repair information. Known for its comprehensive coverage, accurate and up-to-date details, and abundant illustrations, the text is an ideal resource to prepare for success as an automotive technician or pursue ASE certification. Now updated with extensive information on new and emerging technology and techniques--including hybrid and electric vehicles, tire plus sizing, and computer-controlled suspensions--the Sixth Edition also aligns with area A4 of the NATEF 2012 accreditation model, including job sheets correlated to specific AST and MAST tasks. Ideal for aspiring and active automotive professionals, TODAY'S TECHNICIAN: AUTOMOTIVE SUSPENSION & STEERING SYSTEMS, Sixth Edition, equips readers to confidently understand, diagnose, and repair suspension and steering systems in today's automobiles.

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#### **Review**

1. Suspension and Steering Systems Introduction and Overview. 2. Basic Theories. 3. Tires and Wheels. 4. Wheel Bearings. 5. Shock Absorbers and Struts. 6. Front Suspension Systems. 7. Rear Suspension Systems. 8. Steering Columns and Steering Linkages. 9. Four Wheel Alignment Part I. 10. Four Wheel Alignment Part II. 11. Computer-Controlled Suspension Systems. 12. Power Steering Pumps. 13. Rack and Pinion Steering Gears and Four Wheel Steering. 14. Recirculating Ball Steering Gears.

#### **About the Author**

Mark Schnubel is an associate professor and coordinator of the automotive technician and automotive management programs at Naugatuck Valley Community College in Waterbury, Connecticut. He is an ASE-Certified Master Automotive Technician with decades of experience in the automotive services industry and holds a master's degree in education. In addition to his activities as an author and educator, Schnubel has served as an advisor to the U.S. Department of Education on academic preparation for 12th graders planning to enter job-training programs after graduation.

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