



Truck and Trailer Systems

By Mike Thomas

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The most complete *visual* guide to servicing medium- and heavy-duty truck systems

Written by an expert with decades of experience as an automotive and diesel technician and instructor, *Truck and Trailer Systems* offers comprehensive information on medium- and heavy-duty truck service. The book begins by discussing the trucking industry, professional certifications, safety, tools, and measuring equipment. Then, each system is thoroughly covered--from electrical and lighting to brakes and transmissions.

Factory procedures from the most common manufacturers for diagnosis and repair are presented along with annotated photos and diagrams. This practical, authoritative resource is essential for those starting out in the field as well as experienced professionals in need of a detailed, on-the-job reference.

Chapters include:

- Objectives
- Notes
- Cautions
- Service tips
- Photos and diagrams
- Chapter reviews

Truck and Trailer Systems covers:

- Industry safety
- Basic electrical
- Magnetism
- Batteries
- Starting system
- Charging system
- Lighting and wiring
- Computer systems
- Mobile heating, ventilation, and air-conditioning systems
- Tires, wheels, and wheel end systems

- Frames and suspensions
- Steering systems
- Trailers and fifth wheels
- Hydraulic brake systems
- Air brake foundation brakes
- Air brake air systems
- Antilock brake systems
- Drive lines
- Clutches
- Drive axles
- Single and twin countershaft manual transmissions
- Automated manual transmissions
- Automatic transmissions
- Allison transmission overhaul
- PMI
- Auxiliary power units

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Editorial Review

About the Author

Mike Thomas has more than 30 years' experience as an Auto/Diesel Technician. He is a Graduate of Denver Automotive and Diesel College and Joliet Junior College AAS Degree. Thomas is ASE Certified as a Master Automotive Technician, Master Medium/Heavy Duty Diesel Truck Technician, L1 Automobile Advanced Engine Performance, and L2 Advanced Electronic Diesel Engine Diagnostics. He has been teaching auto and diesel classes for more than 15 years. Thomas was an Auto/Diesel curriculum developer for Universal Technical Institute (UTI) for three years. At Arizona Automotive Institute, he created the entire 60-week Diesel Program, including course materials, PowerPoint presentations, lab sheets, and quizzes.

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