



Truck and Trailer Systems Lab Manual

Mike Thomas

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A practical medium- and heavy-duty truck systems

Featuring more than 100 in-depth lab exercises, this hands-on guide provides the practice you need to succeed as a medium- and heavy-duty truck service technician. The labs meet and exceed NATEF standards. Every system is thoroughly covered--from electrical and lighting to brakes and transmissions.

Each lab includes:

- Objective of the lab
- Safety precautions
- Tools needed to complete the lab

Challenging review questions help to reinforce the topics covered and are patterned after the typical questions found on the ASE Medium/Heavy Duty Truck Certification tests (T3 through T8). Written by an expert with decades of experience as an automotive and diesel technician and instructor, this lab manual is the perfect companion to the comprehensive text, *Truck and Trailer Systems*.

***Truck and Trailer Systems Lab Manual* covers:**

- Vehicle identification numbers
- Engine, transmission, and drive axle ID tag numbers
- Safety
- Tools and measuring equipment
- 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 system
- Anti-lock brake systems
- Drive lines
- Clutches
- Drive axles
- Single and twin countershaft manual transmissions

- Automated manual transmissions
- Automatic transmissions
- Allison automatic transmissions
- PMI
- Auxiliary power units

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