



# Truck and Trailer Systems Lab Manual

By Mike Thomas

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**Truck and Trailer Systems Lab Manual** By Mike Thomas

## 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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### Editorial Review

#### About the Author

**Mike Thomas (Phoenix, AZ)** has more than 30 years' experience as an Auto/Diesel Technician. He was an Auto/Diesel curriculum developer for Universal Technical Institute and created the 60-week Diesel Program at Arizona Automotive Institute.

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**Deandre Freeman:**

A lot of people always spent their own free time to vacation or maybe go to the outside with them loved ones or their friend. Were you aware? Many a lot of people spent many people free time just watching TV, or even playing video games all day long. If you want to try to find a new activity honestly, that is look different you can read the book. It is really fun for you personally. If you enjoy the book that you just read you can spent the entire day to reading a book. The book Truck and Trailer Systems Lab Manual it is quite good to read. There are a lot of people that recommended this book. We were holding enjoying reading this book. If you did not have enough space to deliver this book you can buy the particular e-book. You can m0ore very easily to read this book through your smart phone. The price is not to cover but this book possesses high quality.

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