



Automotive Fuel and Emissions Control System

Overview

This up-to-date comprehensive text, written James D. Halderman and James Linder, experts in the field, covers all topics in this subject and is correlated to the ASE and NATEF Tasks Lists for the Engine Performance test (A8) and advanced-level Engine Performance test (L1). Student-friendly, it includes numerous 'tech tips' and 'guru tips' that break up the text material. All new technical terms are bolded and defined at first use.

This package includes a 592-pages book and a multimedia CD.

Book: Table of Contents

1. Tools and Safety.
2. Environmental and Hazardous Materials.
3. Engine Operation and Condition Diagnosis.
4. Gasoline and Automotive Fuels.
5. Turbo/Super Charging.
6. Electrical and Electronic Fundamentals.
7. Digital Meter and Scope Usage.
8. Computer Principles and Operation.
9. Fuel Pumps, Lines, and Filters.
10. Fuel Pump Diagnosis and Service.
11. Fuel Injection Components and Operation.
12. Fuel Injection System Diagnosis and Service.
13. Fuel Injector Diagnosis and Flow Testing.
14. Ignition System Diagnosis and Service.
15. Ignition System Diagnosis and Service.
16. On-Board Diagnosis and Scan Tools.
17. Temperature Sensors.
18. Oxygen Sensors.
19. MAP/BARO Sensors.
20. Mass Air Flow and Air Vane Sensors.
21. Hall-Effect and Magnetic Sensors.
22. Five-Gas Exhaust Analysis.
23. Evaporative Control Systems (EVAP).
24. Exhaust Gas Recirculation (EGR) Systems.
25. Air Injection Reaction (AIR) and Positive Crankcase Ventilation (PCV).
26. Catalytic Converters.



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Appendix 1: Sample Engine Performance (A8) ASE Test.
Appendix 2: Fuel Pump Volume and Pressure Specifications.
Appendix 3: Fuel Injector Resistance Specifications.
English Language Glossary.
Spanish Language Glossary.
Index.

Features

Conversational writing style-Readable and engaging.
Correlated to the ASE and NATEF exams.
Tech tips, 'Guru' tips, and Sidebar diagnostic stories.
592 pages

Multimedia CD-ROM Table of Contents

- ASE-style Tests
- Automotive Glossary
- Crossword Puzzles (28 total)
- PowerPoint Slide Shows
- Videos
- NATEF Task List
- Reference Desk
- Spanish Translation
- Word Searches

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