



1

The Automobile

After studying this chapter, you will be able to:

- Identify and locate the most important parts of a vehicle.
- Describe the purpose of the fundamental automotive systems.
- Explain the interaction of automotive systems.
- Describe major automobile design variations.
- Comprehend later text chapters with a minimum amount of difficulty.
- Correctly answer ASE certification test questions that require a knowledge of the major parts and systems of a vehicle.

The term *automobile* is derived from the Greek word *autos*, which means self, and the French word *mobile*, which means moving. Today's "self-moving" vehicles are engineering marvels of safety and dependability. Over the last century, engineers and skilled workers the world over have used all facets of *technology* (the application of math, science, physics, and other subjects) to steadily give us a better means of transportation.

You are about to begin your study of the design, construction, service, maintenance, and repair of the modern automobile. This chapter provides a "quick look" at the major automotive systems. By knowing a little about each of these systems, you will be better prepared to learn the more detailed information presented later in this text.

Today, failure of one system can affect the operation of a seemingly unrelated system. This makes a thorough understanding of how the whole automobile works especially important.



Tech Tip!

Try to learn something new about automotive technology every day. In addition to studying this book and doing the hands-on activities, read automotive magazines, "surf" the Internet, and watch "motor-sport" television programs. This will help you become a better technician by increasing your knowledge daily.

Parts, Assemblies, and Systems

A *part* is the smallest removable item on a car. A part is not normally disassembled. The word *component* is frequently used when referring to an electrical or electronic part. For example, a spark plug is an ignition system component that ignites the fuel in the engine.

An *assembly* is a set of fitted parts designed to complete a function. For example, the engine is an assembly that converts fuel into useable power to move the vehicle. Technicians must sometimes take assemblies apart and put them back together during maintenance, service, and repair operations. See Figure 1-1.

An *automotive system* is a group of related parts and assemblies that performs a specific function (job or task).



Figure 1-1. An assembly is a group of parts that work together to perform a function. For example, an engine is an assembly that contains pistons, which convert the fuel's heat energy into useable kinetic energy (motion). As you will learn, an engine has many other parts. (Saturn)

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Table of Contents Modern Automotive Technology 7th Edition Answers

1. Understanding the eBook Modern Automotive Technology 7th Edition Answers
 - The Rise of Digital Reading Modern Automotive Technology 7th Edition Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Modern Automotive Technology 7th Edition Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Modern Automotive Technology 7th Edition Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Modern Automotive Technology 7th Edition Answers
 - Personalized Recommendations
 - Modern Automotive Technology 7th Edition Answers User Reviews and Ratings
 - Modern Automotive Technology 7th Edition Answers and Bestseller Lists
5. Accessing Modern Automotive Technology 7th Edition Answers Free and Paid eBooks

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 - Highlighting and Note-Taking Modern Automotive Technology 7th Edition Answers
 - Interactive Elements Modern Automotive Technology 7th Edition Answers
8. Staying Engaged with Modern Automotive Technology 7th Edition Answers
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Modern Automotive Technology 7th Edition Answers
9. Balancing eBooks and Physical Books Modern Automotive Technology 7th Edition Answers
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Modern Automotive Technology 7th Edition Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Modern Automotive Technology 7th Edition Answers
- Setting Reading Goals Modern Automotive Technology 7th Edition Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Modern Automotive Technology 7th Edition Answers
- Fact-Checking eBook Content of Modern Automotive Technology 7th Edition Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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