

Section 1

Introduction to Automotive Technology

1. *The Automobile*
2. *Automotive Careers and ASE Certification*
3. *Basic Hand Tools*
4. *Power Tools and Equipment*
5. *The Auto Shop and Safety*
6. *Automotive Measurement and Math*
7. *Using Service Information*
8. *Basic Electricity and Electronics*
9. *Fasteners, Gaskets, Seals, and Sealants*
10. *Vehicle Maintenance, Fluid Service, and Recycling*

We are truly living in a "world of wheels." Every day, millions of people depend on their cars, trucks, vans, and sport-utility vehicles as their primary means of transportation. As a result, economic experts predict a strong demand for skilled automobile technicians and related professionals for the foreseeable future. You have chosen to study an area of employment that pays well and will require thousands of new graduates yearly.

Section 1 will introduce you to the "basics" of automotive technology. It contains information on automobile construction and operation, ASE certification, safety, tools, service information, electricity, and vehicle maintenance.

This section will give you the knowledge needed to secure an entry-level job. It will also lay the groundwork for later chapters, which provide in-depth coverage of automotive technology.

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 *auto*, 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.



Back 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 usable power to move the vehicle. Technicians must sometimes take assemblies apart and put them back together during maintenance, service, and repair operations. See Figure 1-4.

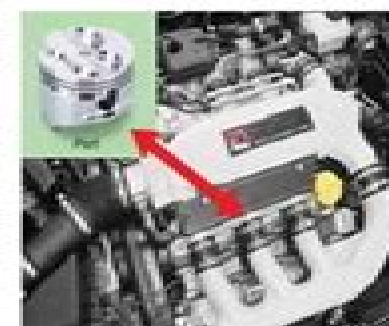


Figure 1-4 An assembly is a group of parts that work together to perform a function. For example, an engine is an assembly that contains pistons, which convert the fuel's heat energy into usable kinetic energy (motion). As you will learn, an engine has many other parts. (Datum)

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