



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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