#### Section 1

# Introduction to Automotive Technology

- L. The Antomobile
- 2. Automotive Careers and ASE Certification
- 3. Besic 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 firing 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 foreserable future. You have chosen to study an area of employment that pass well and will require thousands of new graduates searly.

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

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 indepth coverage of automotive technology.



## The Automobile

After studying this chapter, you will be able to:

- Mentily and locate the most important parts of a seriale.
- Describe the purpose of the fundamental automobile restauts.
- Explain the interaction of automotive systems.
- Describe major automobile design variations.
- Comprehend later test chapters with a minimum amount of difficults.
- Consolly assum ASE cartification test questions that require a knowledge of the major parts and votems of a rehicle.

The term automobile is derived from the Goods word autor, which means sell, and the French word mobile, which means moving. Today's "self-moving" vehicles are engineering marvels of soleny and dependability. Over the lost contary, expinents and skilled workers the world over have used all facets of bedwinning (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 opear 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 propared to learn the more detailed information proposted 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 expecially important.



#### leth Titel

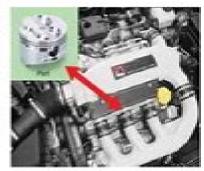
Try to fours werefling new about automotive technology overy day. In addition to studying this book and doing the handoon activities, read automotive magnation, "sen" the Internet, and waith "insten-goot" followining programs. This

will help you become a better technician by increasing you 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 relieving to an electrical or eletronic part. For example, a spark plag is an ignition system component that intakes the find in the section.

As assembly is a set of fitted parts designed to complete a function. For example, the engine is an assembly that consent that into uscable power to move the vehicle. Technicians must senetimes take assembles upon and put them back regether during maintenance, service, and requir occurrious. See Figure 9-1.



ALTERNATION IN

Figure 1-4. An assembly is a group-of-parts that work together to perform a function. For example, on engine is an assembly that curtainty-picture, which connect the furth head energy into consider kneets energy (motion). As you will team, an engine has many other parts. (Seturn)

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James E. Duffy

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