



Chapter 10

Ignition Systems

Objectives

After studying this chapter, you will be able to:

- ✓ Explain why battery voltage must be increased in the ignition system.
- ✓ Describe the primary circuit of an ignition system.
- ✓ Describe the secondary circuit of an ignition system.
- ✓ Summarize the basic function and operating principles of ignition system components.
- ✓ Explain how various types of electronic distributorless ignition systems operate.
- ✓ Explain the concept of ignition timing.

Chapters 4, 5, and 6 made frequent reference to the use of a spark to ignite the air-fuel mixture. This chapter will provide you with a clear and concise description of the various units in the ignition system. The theory, design, and construction of the parts will be discussed. You will also learn how they are combined to produce, control, and distribute the spark. Before beginning this chapter, be sure that you are familiar with the material in Chapter 8, *Electrical System Fundamentals*. This will provide you with a basic introduction to electricity and electronics. Such knowledge is essential to understanding ignition systems.

High Voltage Is Necessary

Jumping a spark plug gap requires thousands of volts. However, the vehicle electrical system produces a maximum of about 14.5 volts and may drop below 12 volts when the engine is being cranked. Since this is not enough voltage to jump across the electrodes of a spark plug, a way to raise the voltage is needed. In modern vehicles, the voltage needed at the spark plugs can exceed 100,000 volts. This means that the original 12–14.5 volts is increased many times.

The ignition system is divided into two separate circuits: the primary circuit and the secondary circuit. Since the mid 1970s, all vehicle ignition systems have used electronic components to create and time the spark. These systems are called *electronic ignition systems*. The components used in the primary and secondary circuits of various types of electronic ignition systems are shown in **Figure 10-1**. The primary circuit will be covered first.

Primary Circuit

The *primary circuit* consists of the battery, ignition switch, resistor (old distributor systems), ignition control module, and the ignition coil's primary windings. These parts will be covered in the order that electricity flows through them. The primary circuit voltage is low, ranging from 12–14.5 volts. The wiring in this circuit is covered with a thin layer of insulation to prevent short circuits.

Battery

To better understand the operation of the ignition system's primary circuits, we will start at the battery and trace the flow of electricity through the system. The *battery* is the source of electrical energy needed to operate the ignition system. It stores and produces electricity through chemical action. When the battery is being charged, it converts electricity into chemical energy. When the battery is discharging (producing current), it converts chemical energy into electricity.

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1. Understanding the eBook Auto Fundamentals Workbook Answers Ignition System
 - The Rise of Digital Reading Auto Fundamentals Workbook Answers Ignition System
 - Advantages of eBooks Over Traditional Books
2. Identifying Auto Fundamentals Workbook Answers Ignition System
 - 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 Auto Fundamentals Workbook Answers Ignition System
 - User-Friendly Interface
4. Exploring eBook Recommendations from Auto Fundamentals Workbook Answers Ignition System

- Personalized Recommendations
- Auto Fundamentals Workbook Answers Ignition System User Reviews and Ratings
- Auto Fundamentals Workbook Answers Ignition System and Bestseller Lists
- 5. Accessing Auto Fundamentals Workbook Answers Ignition System Free and Paid eBooks
 - Auto Fundamentals Workbook Answers Ignition System Public Domain eBooks
 - Auto Fundamentals Workbook Answers Ignition System eBook Subscription Services
 - Auto Fundamentals Workbook Answers Ignition System Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Auto Fundamentals Workbook Answers Ignition System Compatibility with Devices
 - Auto Fundamentals Workbook Answers Ignition System Enhanced eBook Features
- 7. Enhancing Your Reading Experience
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 - Highlighting and Note-Taking Auto Fundamentals Workbook Answers Ignition System
 - Interactive Elements Auto Fundamentals Workbook Answers Ignition System
- 8. Staying Engaged with Auto Fundamentals Workbook Answers Ignition System
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Auto Fundamentals Workbook Answers Ignition System
- 9. Balancing eBooks and Physical Books Auto Fundamentals Workbook Answers Ignition System
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Auto Fundamentals Workbook Answers Ignition System
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Auto Fundamentals Workbook Answers Ignition System
 - Setting Reading Goals Auto Fundamentals Workbook Answers Ignition System
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Auto Fundamentals Workbook Answers Ignition System

- Fact-Checking eBook Content of Auto Fundamentals Workbook Answers Ignition System
- 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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