

I'm not robot!



## CHAPTER 17

Fuel for Thought

- Why is it critical to move exhaust away from the passenger cabin?
- What is the function of the catalytic converter?
- Why is emission testing commonly required?

### Introduction

Exhaust and emission systems on newer vehicles have become more complex than in the past. The emission system is used to monitor air-fuel ratios and has many benefits to the operator and the environment. For many years, automotive manufacturers were just concerned about getting the hot and toxic exhaust gases out to the side or rear of the vehicle. Today exhaust and emission systems are complex mechanisms that provide safety, efficiency, and concern for the environment. Periodically, exhaust and emission system components need replacing. This chapter focuses on identifying the components and purposes of the exhaust and emission system.

### Objectives

- Upon completion of this chapter and activities, you will be able to:
- Define the purpose of the exhaust and emission system.
  - Identify and explain the components in an exhaust and emission system.
  - Inspect exhaust and emission system components.

### Exhaust and Emission Purpose

The exhaust and emission system is designed to deal with the inefficient by-products of the internal combustion process. The exhaust components dampen the sound of the engine (Figure 17.1). The emission components lower vehicle pollution categorized as tailpipe, crankcase, and evaporative emissions.

### Web Links

#### Exhaust Sites

- Bosch**  
[www.boschautoparts.com](http://www.boschautoparts.com)
- Dynomax Exhaust**  
[www.dynomax.com](http://www.dynomax.com)
- Gibson Performance Exhaust Systems**  
[www.gibsonperformance.com](http://www.gibsonperformance.com)
- Hedman Performance Group**  
[www.hedman.com](http://www.hedman.com)
- Nickson Industries (Exhaust Accessories)**  
[www.nickson.com](http://www.nickson.com)
- Walker Exhaust Systems**  
[www.walkerexhaust.com](http://www.walkerexhaust.com)

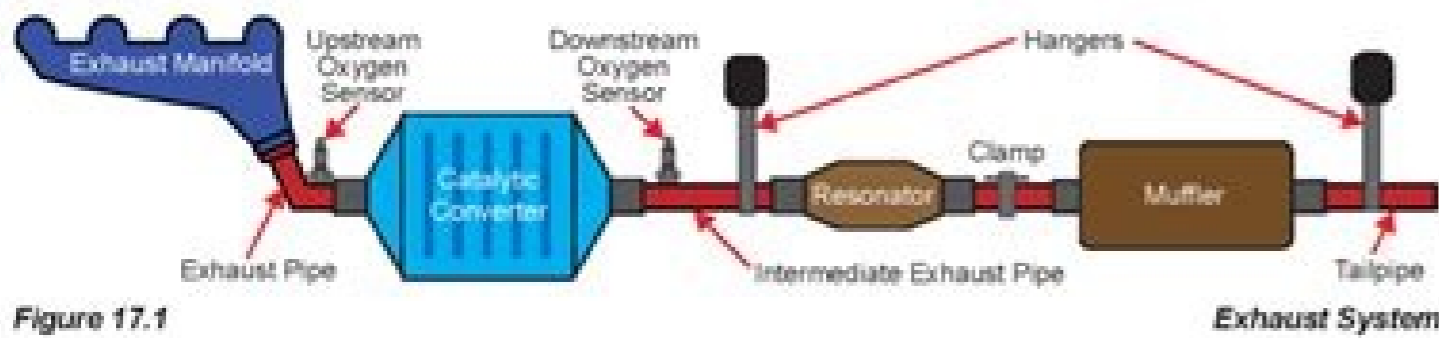
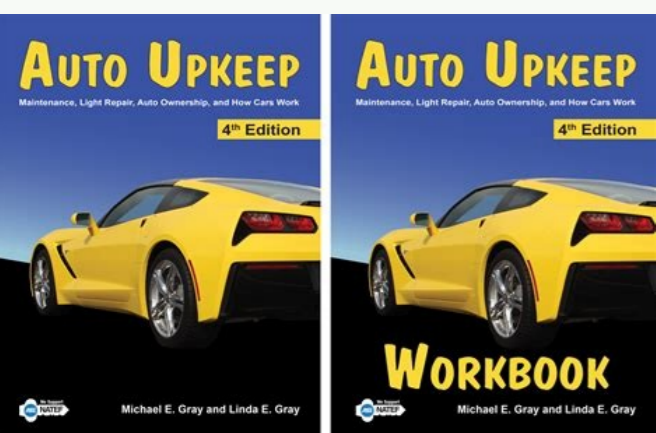
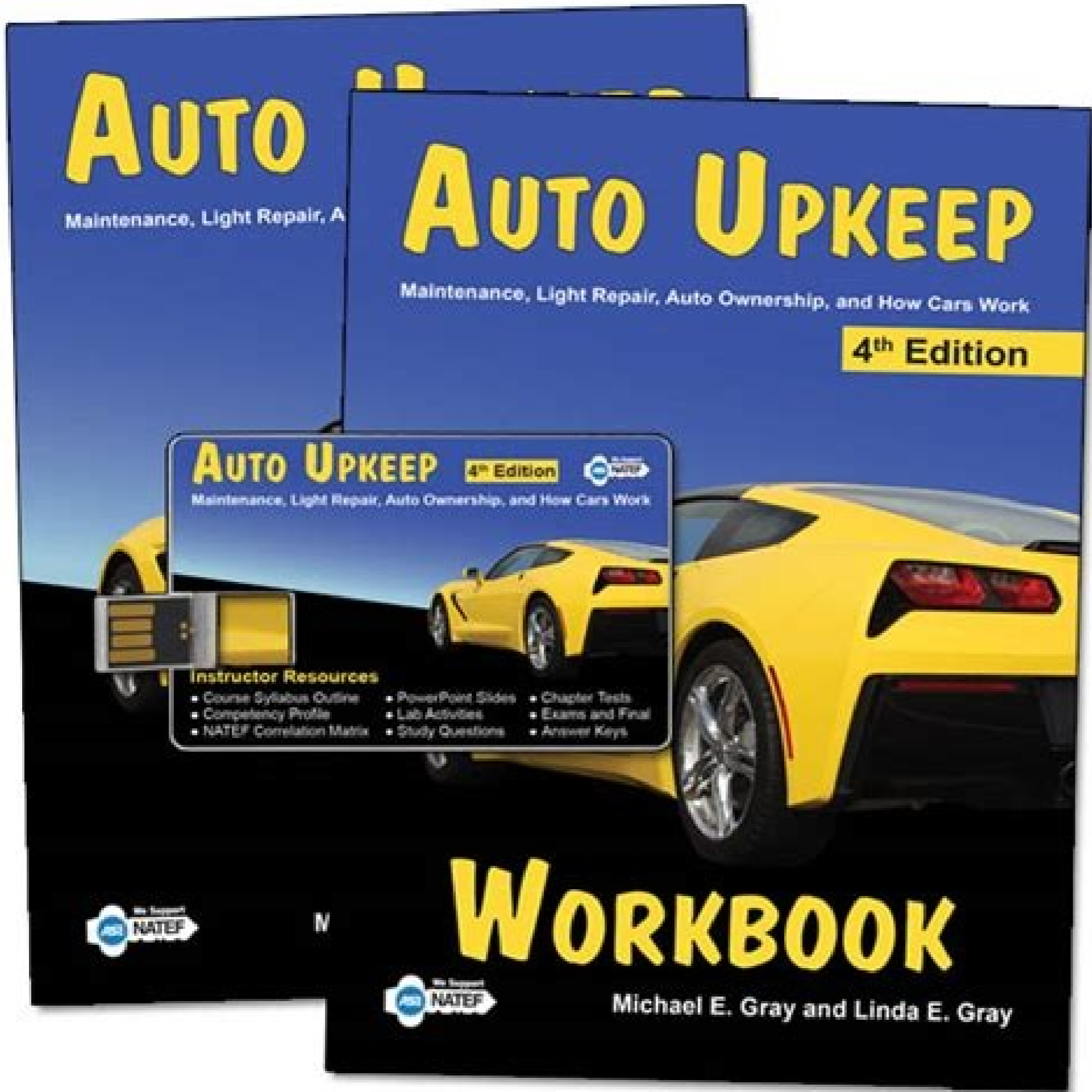


Figure 17.1

Exhaust System







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