Automotive Background
and Overview

FIGURE 1.1 A Ford Quadricycle built by Henry Ford.

FIGURE 1.2 Most vehicle bodies were constructed with a wood framework until the 1930s.
FIGURE 1.3 A chassis of a 1950s era vehicle showing the engine, drivetrain, frame, and suspension.

FIGURE 1.4 Body and frame.

FIGURE 1.5 Note the ribbing and the many different pieces of sheet metal used in the construction of this body.
FIGURE 1.6 A Corvette without the body. Notice that the vehicle is complete enough to be driven. This photo was taken at the Corvette Museum in Bowling Green, Kentucky.

FIGURE 1.7 A Ford flathead V-8 engine. This engine design was used by Ford Motor Company from 1932 through 1953. In a flathead design, the valves located next to (beside) the cylinders.

FIGURE 1.8 A Monroney label as shown on the side window of a new vehicle.
FIGURE 1.9 A dash control panel used by the driver to control the four-wheel-drive system.

FIGURE 1.10 The alternator is in the heart of the electrical system.

FIGURE 1.11 Test registration booklet that includes details on all vehicle-related certification exams given by ASE.