The Fuel Delivery System

FIGURE 40.1 A typical fuel tank installation.

FIGURE 40.2 A three-piece filler tube assembly.
FIGURE 40.3 A view of a typical filler tube with the fuel tank removed. Notice the ground strap, used to help prevent the buildup of static electricity as the fuel flows into the plastic tank. The check ball looks exactly like a ping-pong ball.

FIGURE 40.4 Vehicles equipped with onboard fuel vapors recovery usually have a reduced-size filler tube.
FIGURE 40.5 The fuel pickup tube is part of the filter/reducer and pump assembly.

FIGURE 40.6 Fuel lines are routed along the frame or body and secured with clips.

FIGURE 40.7 Some Ford metal line connections use springlocks and O-rings.
FIGURE 40.8 Ford spring-lock connectors require a special tool for disassembly.

FIGURE 40.9 Typical quick-connect steps.

FIGURE 40.10 A roller cell-type electric fuel pump.
FIGURE 40.11 The pumping action of an impeller or rotary vane pump.

FIGURE 40.12 An exploded view of a gerotor electric fuel pump.

FIGURE 40.13 Inline fuel filters are usually attached to the fuel line with screw clamps or threaded connections. The fuel filter must be installed in the proper direction or a restricted fuel flow can result.