Fuel Pumps, Lines, And Filters
Chapter 22

ACROSS
2 A _______ ______ consists of a central impeller disk, several rollers or vanes that ride in notches in the impeller, and a pump housing that is offset from the impeller centerline.
4 With late-model vehicles, there has been some concern about too much heat being sent back to the fuel tank, causing rising in-tank temperatures and increases in fuel vaporization and _______ _______ _______ emissions.
5 Creating and maintaining a correct air-fuel mixture requires a properly functioning fuel and air _______ ______.
6 A _______ ______ is the most common because it tends to be less noisy.
10 Some manufacturers use an _______ ______ in the system to reduce pressure pulses and noise.
14 In the _______ ______ or vane pump, the impeller draws fuel into the pump, and then pushes it out through the fuel line to the injection system.
15 _______ _______ _______ prevents vapor lock and hot-start problems.

DOWN
1 The word hydro means liquid and the term kinetic refers to motion, so the term _______ _______ _______ means that this design of pump rapidly moves the fuel to create pressure.
3 Ford vehicles use an _______ ______.
7 If any part of the line is located near too much heat, the gasoline passing through it vaporizes and _______ _______ occurs.
8 The final filter, also called a _______ ______, is the last filter in the fuel system.
9 Variations of the basic one-way _______ ______ may be installed in any number of places between the fuel tank and the engine.
11 An internal gear pump, called a ______, is another type of positive displacement pump that is often used in engine oil pumps.
12 A vertical _______ in fuel tanks limits fuel sloshing as the vehicle moves.
13 _______ systems have been developed to reduce evaporative emissions during refueling.