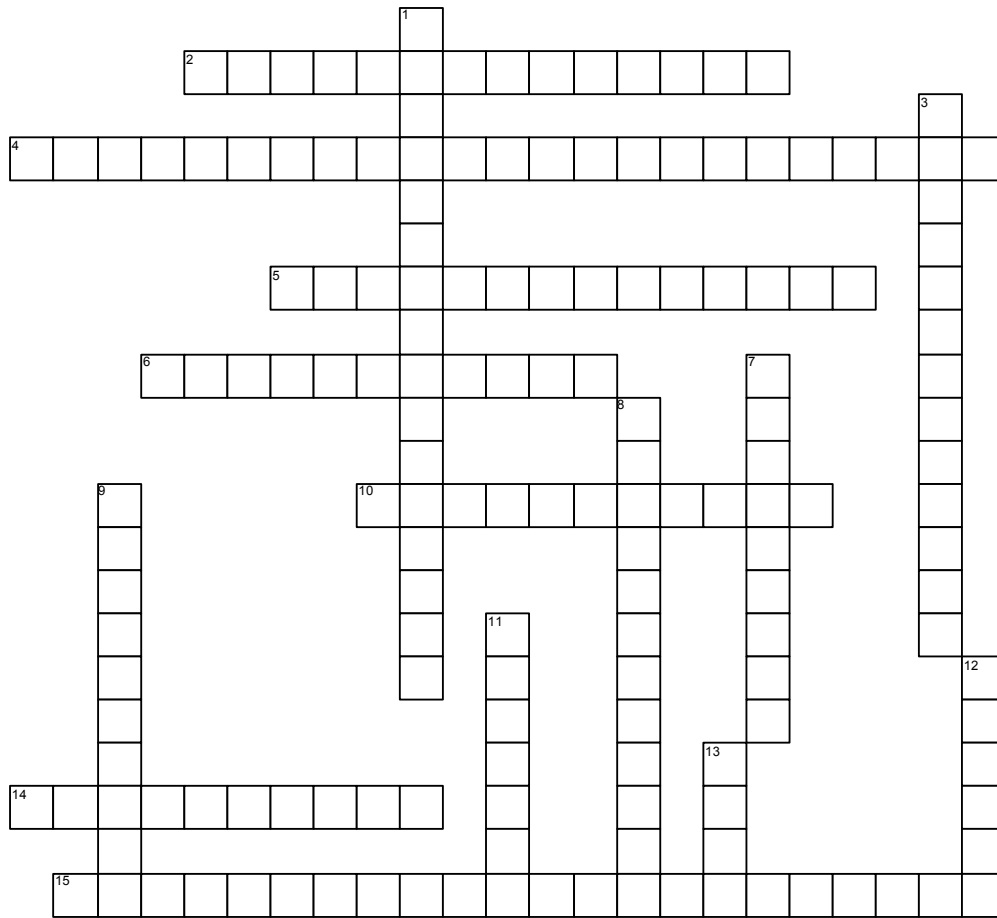


Fuel Pumps, Lines, And Filters

Chapter 19



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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.