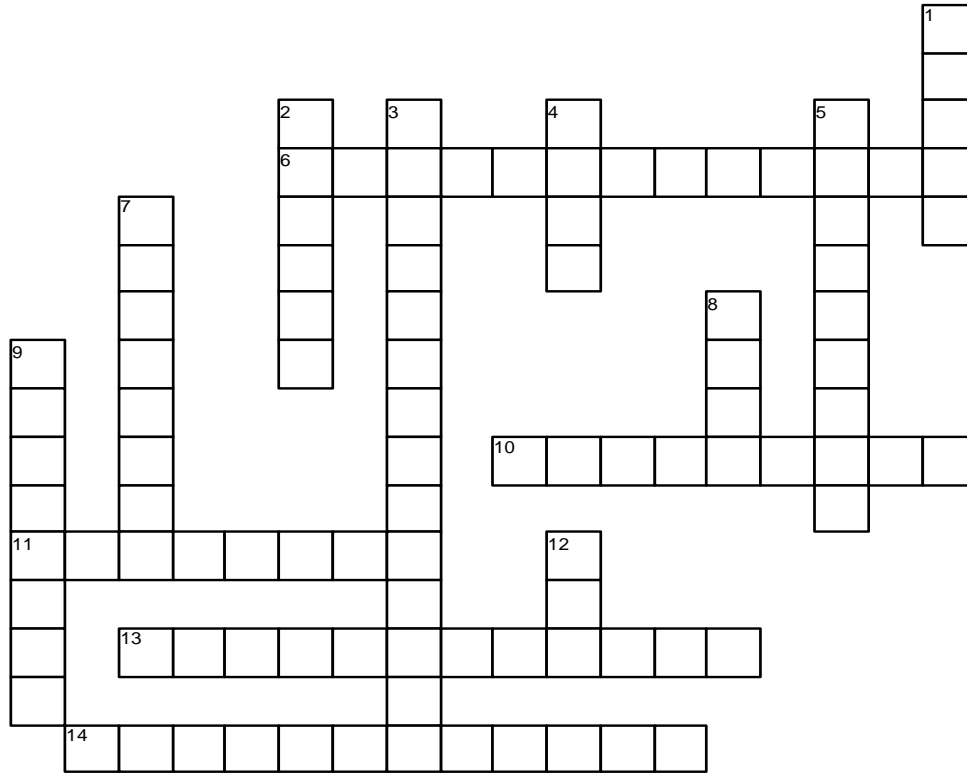


# Fuel-Injection Parts And Operation

## Chapter 75



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### ACROSS

- 6 The idle air control valve is also called an \_\_\_\_\_ control valve.
- 10 In some applications, an externally mounted permanent magnet motor called the \_\_\_\_\_ control motor mechanically advances the throttle linkage to advance the throttle opening.
- 11 A port fuel-injection system uses a pipe or tubes to deliver fuel from the fuel line to the intended fuel injectors, this pipe or tube is called the \_\_\_\_\_.
- 13 A \_\_\_\_\_ valve is employed at the tank to relieve overpressure due to thermal expansion of fuel.
- 14 A \_\_\_\_\_-\_\_\_\_\_ injection system delivers fuel from a nozzle into the air above the throttle plate.

### DOWN

- 1 An increase and then decrease in engine speed is often called an engine \_\_\_\_\_.
- 2 New technology needed to address pulsation dampening/hammering and fuel transient response, therefore, the \_\_\_\_\_ delivery system technology was developed.
- 3 In this system, the injectors are timed and pulsed individually, much like the spark plugs are sequentially operated in firing order of the engine, this system is often called \_\_\_\_\_ injection.
- 4 The first production returnless systems employed the \_\_\_\_\_ approach.
- 5 The method for pulsing injectors in groups is sometimes called \_\_\_\_\_.
- 7 A \_\_\_\_\_ control valve may also be used and can readily reconfigure an existing design fuel sender into a returnless sender.
- 8 The power driver contains a high-current transistor that controls the pump speed using pulse width modulation, this system is called \_\_\_\_\_.
- 9 A \_\_\_\_\_-injection design uses a nozzle for each cylinder and the fuel is squirted into the intake manifold about 2 to 3 inches from the intake valve.
- 12 A \_\_\_\_\_ is employed at the tank to relieve overpressure due to thermal expansion of fuel.