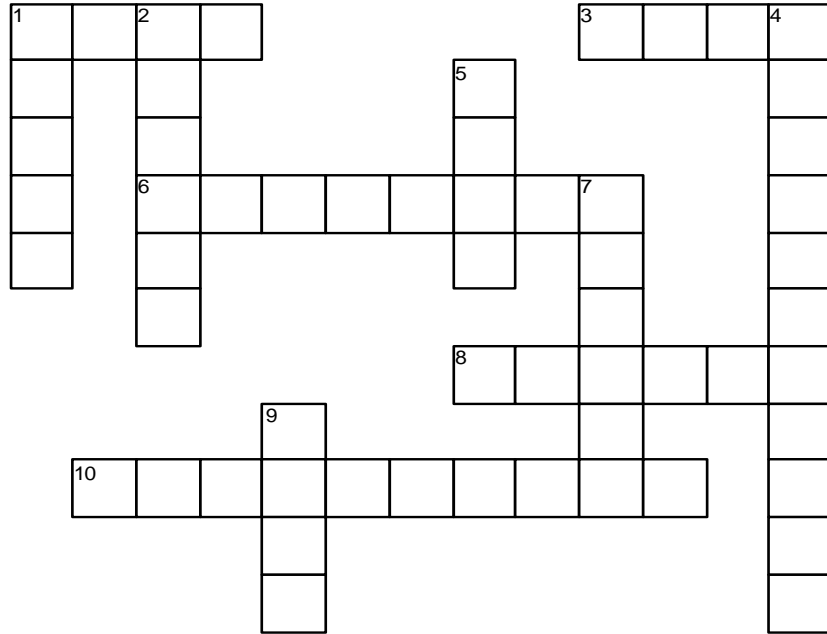


Automotive Electrical and Engine Performance 9th Edition Chapter 36 - Gasoline Direct-Injection (GDI) System



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ACROSS

- 1 Spark ignition direct injection (abbreviation) The term General Motors refers to for GDI.
- 3 The fuel pump in the fuel tank supplies fuel to the _____-pressure fuel pump at a pressure of approximately 60 PSI.
- 6 An _____ pressure-control valve is installed between the pump inlet and outlet valves.
- 8 _____ is often an issue in engines equipped with GDI systems.
- 10 _____ mode: The injection occurs just before the spark occurs resulting in lean combustion, reducing fuel consumption.

DOWN

- 1 _____-guided combustion: The injector is placed in the center of the combustion chamber and injects fuel into the dish-out portion of the piston.
- 2 Gasoline _____-injection (GDI): The fuel is injected directly into the combustion chamber.
- 4 _____ mode: The injector is pulsed one time to create an even air-fuel mixture in the cylinder.
- 5 _____ fuel injection: Constant fuel pressure but variable injector pulse-width.
- 7 To help reduce exhaust emissions after a cold start, the fuel system uses a stratified _____ mode.
- 9 The fuel _____ stores the fuel from the high-pressure pump and stores high-pressure fuel for use to each injector.