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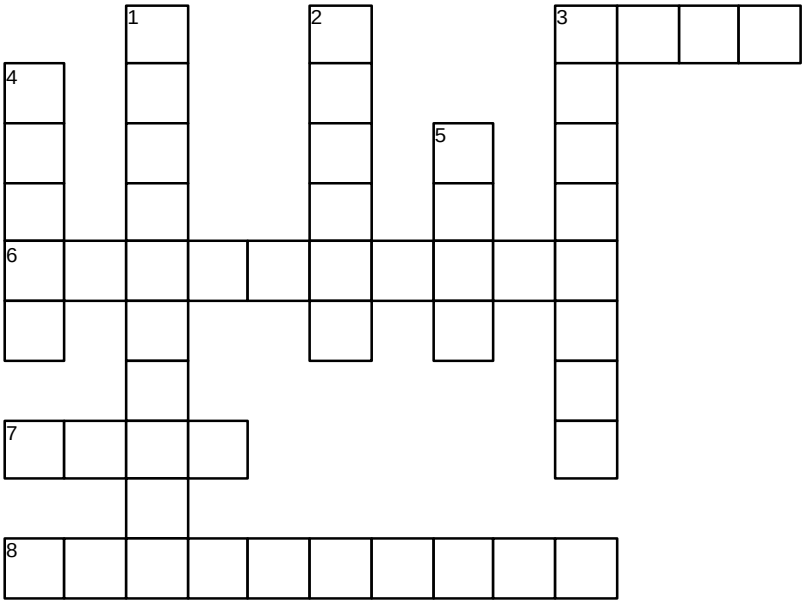
Automotive Electrical and Engine Performance 9th Edition

Chapter 35 - Fuel-Injection Parts and Operation



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ACROSS

3 _____ Fuel-Injection: A type of fuel-injection system where fuel is injected near the intake valves for each cylinder, improving atomization and fuel delivery precision.

6 Electronic _____ Fuel System (ERFS): A fuel system that regulates pressure electronically without returning fuel to the tank, improving efficiency and reducing fuel vapor emissions.

7 Pressure _____ Valve (PVV): A valve that releases excess pressure from the fuel system to prevent over-pressurization.

8 _____ Returnless Fuel System (MRFS): A fuel system that maintains fuel pressure without a return line to the tank, using mechanical pressure regulation.

DOWN

1 _____ Air Control (EAC): A system used to control airflow electronically in fuel-injection systems, helping to maintain the correct air-fuel mixture.

2 _____ Delivery System (DDS): A fuel system that uses a pressure regulator at the fuel rail to manage fuel delivery, combining the benefits of electronic and mechanical returnless systems by ensuring constant injector pressure and minimizing pulsation.

3 _____ Control Valve (PCV): A valve used to regulate the pressure within the fuel system, ensuring consistent fuel flow to the injectors.

4 An increase in engine RPM that occurs during shifts or throttle transitions, often controlled by the fuel-injection system to prevent drivability issues.

5 _____ Rail: A component in fuel-injected engines that distributes fuel to the injectors, typically mounted on top of the intake manifold.