

Electronic Fuel Injection Techniques For Hydrogen Powered

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Basic Overview of Electronic Fuel Injection The following guide primarily discusses multi-port electronic fuel injection systems since it is the dominate system used in most performance and racing applications. Most of the theory and operation of multi-port systems is also applicable to throttle-body electronic fuel systems.

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Electronic fuel injection (EFI) system use engine sensors, a computer and solenoid operated fuel injector to meter and inject right amount of fuel into the cylinders. An electronic control unit receives information in the form of electric signals from the sensors. These sensors are mounted at different parts of the engine.

~~Electronic Fuel Injection (EFI) System Explained | Merits ...~~

Electronic fuel injection is a type of technology and mechanical structure that supplies fuel to an engine. These systems are most common in automobiles and trucks. All cars sold today in the United States are required to have electronic injection systems in large part because of these systems ' overall efficiency and reliability, and most new cars manufactured around the world rely on electronic models for similar reasons.

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Intake air adjuster to make sure there ' s exactly the right quantity of air for the engine. Electronic control unit and sensors to ensure the system injects precisely the right quantity of fuel into the intake air stream. Fuel injectors mounted on a fuel supply rail to deliver the fuel to the engine.

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You don't just fall off a turnip truck and start tuning electronic fuel injection systems, even if an LS-type engine is beneath the hood of the said turnip truck. An understanding of basic fuel system operation is also necessary, and strange as it may seem, one of the best ways to learn the fundamentals of electronic fuel injection is to develop an understanding of carburetors.

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Electronic fuel injection allows for extremely precise control over how much fuel is sprayed into the cylinders. It follows a fairly straightforward process to do so: The fuel exits the fuel tank via the fuel pump. It travels through fuel lines towards the engine.

[How Does Fuel Injection Work? | YourMechanic Advice](#)

Bosch developed an electronic fuel injection system, called D-Jetronic (D for Druck, German for "pressure"), which was first used on the VW 1600TL/E in 1967. This was a speed/density system, using engine speed and intake manifold air density to calculate "air mass" flow rate and thus fuel requirements.

[Fuel injection - Wikipedia](#)

It was inevitable that electronic fuel injection technology, successfully introduced for high-speed diesel engines, would eventually be applied to benefit medium-speed designs. Lucas Bryce (which became Delphi Bryce, now part of the Woodward Governor group) first demonstrated electronic fuel injection in the late 1970s, showing that improved fuel consumption and emissions could be achieved.

[Electronic Control - an overview | ScienceDirect Topics](#)

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