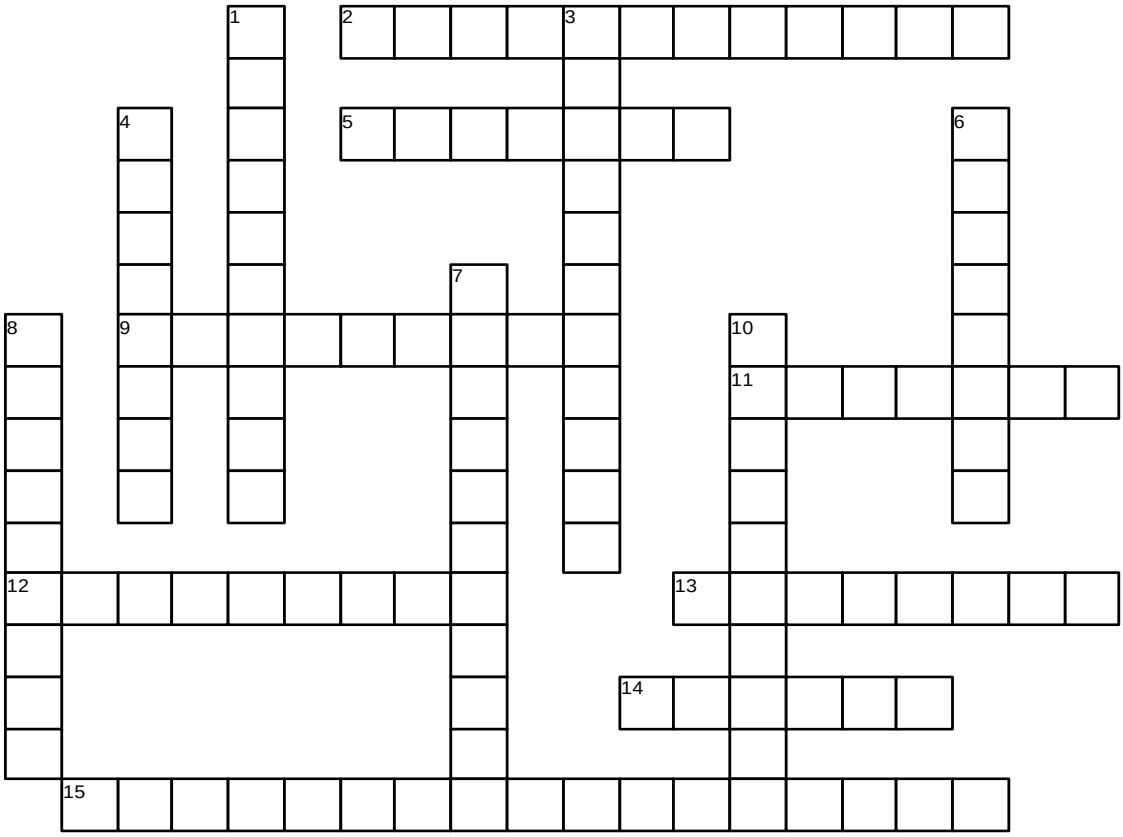
Fuel-Injection System Diagnosis And Service

Chapter 78



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ACROSS

2 During port fuel-injection pressure regulator diagnosis, connect a ____-_____ gauge to monitor the fuel pressure.

5 An electronic stepper motor or pulse-width modulated solenoid is mused to maintain the correct idle speed, this is often called the ____ ___ control.

9 In a _____ switch- type injector-driven circuit, voltage is applied to the injector.

11 If gasoline is visible in the vacuum hose, the regulator is _____ and should be replaced.

12 Normal ___ _____ or percentage is usually 15 to 25.

13 Using a _____ transducerand a digital storage oscilloscope allows the service technician to view the fuel pressure over time.

14 Most port-fuel-injected engines use a _____ hose connected to the fuel-pressure regulator.

15 If the vacuum hose is removed from the fuel-_____ _____ when the engine is running, the fuel pressure should increase.

DOWN

1 Due to the resistance and inductive reactance of the coil itself, it requires a fraction of a second for the coil to reach _____ or maximum current flow.

3 A ____-__-____ type is typically used for TBI and some port low-resistance injectors.

4 The _____ balance test involves using an electrical timing device to pulse the fuel injectors for a given amount of time, usually 500 ms or 0.5 second, and observing the drop in pressure that accompanies the pulse.

6 Using a pressure transducer and a _____ multimeter allows the service technician to view the fuel pressure over time.

7 A commonly used test for injector operation is to listen to the injector using a _____ with the engine operating at idle speed.

8 A ____ _____ is designed to electrically replace the injector in the circuit and to flash if the injector circuit is working correctly.

10 The _____ balance test involves measuring the injector coil winding resistance.