Troubleshooting Fuel Injection Problems with a Noid Light

Occasionally, you may have to troubleshoot a no-start condition, a misfiring or a bad fuel injector in a vehicle. A Fuel Injector Noid Light is one of those indispensable tools that will help you to diagnose the maladies affecting most of the fuel-injected vehicles on the road today. The Noid light test in conjunction with several others will help you find the root cause of the misfire or no-start that your vehicle may be experiencing.

In most vehicles, the fuel injection computer feeds power and switching signals to the fuel injector. With this nifty tool, you can confirm visually that the fuel injector is receiving both. Although the tool will not confirm whether the fuel injector is malfunctioning, it will confirm that the fuel injector is receiving both power as well as the switching/pulse signals. If one of these is not reaching, the fuel injector is not going to work.

As not all cars use identical fuel injector connectors so you need a kit that can match a large variety of them. One kit has ten types of Noid lights that will work with the fuel injector connectors used on a majority of models and makes.

**How to Use a Noid Light**

Whether the vehicle is a Ford, a Chevrolet, a Nissan or any other, it has a different type of connector on its fuel injector. Therefore, you will need to select the proper fuel injector Noid light, which can fit easily into the fuel injector connector to be tested.

**Follow the steps below:**
Step 1: Focus on the fuel injector that you want to test and disconnect it from its electrical connector. There may be a metal clip securing the connector to the fuel injector. Press the clip to unlock and remove the connector. Alternately, there may be a plastic locking tab integrated into the connector, and you may have to press it as you gently pull the connector out.

Some types of connectors may not have metal clips that you can press. You may need to remove the clip first before you can remove the connector.

Step 2: After removing the connector, insert the Fuel Injector Noid Light into fuel injector. The Noid light should fit into the injector easily, do not force it. In case you encounter resistance, select another Noid light from the kit, which will slip in more easily.

Step 3: Step away to a safe distance from the engine, from where you are able to watch the Noid light easily. Have another person crank the engine. Normally, the Noid light should be flashing on and off all the time the engine was cranking. If the engine is started, the Noid light should flash on and off all the time the engine was running.

Step 4: If the Noid light did flash on and off on the first connector of the fuel injector, test the others as well. If all is good, the Noid light should have flashed identically for all the positions.

Interpretation of the Results of the Noid Light Test

If the Noid light flashed on and off and performed identically on all the connectors on the fuel injector, then the results indicate the fuel injector is receiving both power and pulse signals from the fuel injection computer. Therefore, this test result eliminates the fuel injector circuit as being the cause of the problem of the misfiring.
In case the Noid light did not flash, the result indicates that electrical power (usually in the form of 10-12 Volts) is not reaching the fuel injector. It could also be that the fuel injection computer is not delivering the pulse signals to the fuel injector. Therefore, this test result confirms that the electrical part of the circuit related to the fuel injector is the cause of the fault.