

Automotive Technology 7th Edition
Chapter 80: Evaporative Emissions Control and EGR Systems
Matching Quiz

Name: _____ Date: _____

Matching: Choose the item in column 2 that best matches each item in column 1.

- | | | |
|---|--|-----------|
| 1. Detonation | A. A normally open valve that is commanded closed by the PCM only during testing of the system. | 1. _____ |
| 2. Adsorption | B. An emission control system that reduces the formation of nitrogen oxides by introducing exhaust gas into the intake manifold. | 2. _____ |
| 3. Onboard Refueling Vapor Recovery (ORVR) | C. Another name for the gasoline vapors that the EVAP system is designed to trap. | 3. _____ |
| 4. Vent Valve | D. A vacuum-operated component that slightly pressurizes the fuel system to check for leaks as part of the system diagnosis. | 4. _____ |
| 5. EVAP System | E. A sensor used by Ford that monitors the pressure differential across a metered orifice to verify EGR operation. | 5. _____ |
| 6. Purge Valve | F. A system designed to capture fuel vapors and prevent them from escaping into the atmosphere when refueling. | 6. _____ |
| 7. Leak Detection Pump (LDP) | G. The process where fuel vapor molecules stick to the surface of the activated charcoal inside the canister. | 7. _____ |
| 8. Exhaust Gas Recirculation (EGR) | H. A normally closed valve that is pulsed open to allow fuel vapors to be drawn from the canister into the engine. | 8. _____ |
| 9. Volatile Organic Compounds (VOCs) | I. Traps and holds gasoline vapors, routing them into the intake airflow to be burned in the engine. | 9. _____ |
| 10. Delta Pressure Feedback EGR (DPFE) Sensor | J. Uncontrolled combustion, also called spark knock or ping, which can damage an engine. | 10. _____ |

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Answer Key

Answer Key:

1. J
2. G
3. F
4. A
5. I
6. H
7. D
8. B
9. C
10. E