

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

Name:

Date:

1. What are the possible causes for a P0440 Evaporative System Fault, and how do they impact the system's operation?
2. Describe the process and significance of the Evaporative Emission Control System monitor's weak vacuum test (P0440–large leak).
3. How does the Evaporative Emission Control System detect a small leak, and what are the implications of a P0442 DTC?
4. Explain the operational principle of the Leak Detection Pump (LDP) and its role in the EVAP system.
5. What is the purpose of the Onboard Refueling Vapor Recovery (ORVR) system, and how does it operate?

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6. Discuss the methods used for locating leaks in the evaporative emission control system and the advantages of each method.

7. What are the possible causes for a P0401 DTC (Exhaust Gas Recirculation Flow Insufficient), and how do they affect the EGR system's functionality?

8. Explain how the EGR system contributes to controlling NO_x emissions and the conditions under which EGR is not required.

9. Describe the process of nitrogen gas pressurization in the EVAP system and its role in leak detection.

10. What are the consequences of a P0402 DTC (Exhaust Gas Recirculation Flow Excessive), and what might cause this condition?