

Automotive Technology 7th Edition
Chapter 83: Onboard Diagnosis
Matching Quiz

Name: _____

Date: _____

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

- | | | |
|--|--|-----------|
| 1. Freeze-Frame | A. The specific conditions, like engine temperature and speed, that must be met before a diagnostic monitor will run. | 1. _____ |
| 2. Enabling Criteria | B. An emission-related Diagnostic Trouble Code (DTC) that illuminates the Malfunction Indicator Lamp (MIL) on the second consecutive trip after a fault is detected. | 2. _____ |
| 3. Drive Cycle | C. A continuous monitor that uses the crankshaft position sensor to detect if a cylinder is not firing correctly. | 3. _____ |
| 4. Misfire Monitor | D. A software program, known as the Diagnostic Executive on Ford/GM and the Task Manager on Chrysler, that controls when OBD-II monitors run. | 4. _____ |
| 5. Type A DTC | E. An emission-related Diagnostic Trouble Code (DTC) that illuminates the Malfunction Indicator Lamp (MIL) on the very first trip for a fault that could damage the catalytic converter. | 5. _____ |
| 6. Diagnostic Executive | F. A vehicle being driven under specific speed and time conditions that allows all the diagnostic monitors to run and complete their tests. | 6. _____ |
| 7. Type B DTC | G. A continuous monitor that checks for failures in any electronic component or circuit that provides input or output signals to the PCM. | 7. _____ |
| 8. Monitors | H. A scan tool operational mode that displays the test results for non-continuously monitored systems. | 8. _____ |
| 9. Comprehensive Component Monitor (CCM) | I. Organized tests the vehicle's computer performs to evaluate systems and components; they can be continuous or noncontinuous. | 9. _____ |
| 10. Mode Six | J. A snapshot of important engine data that is recorded and stored the instant an emission-related DTC is set. | 10. _____ |

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Answer Key

Answer Key:

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