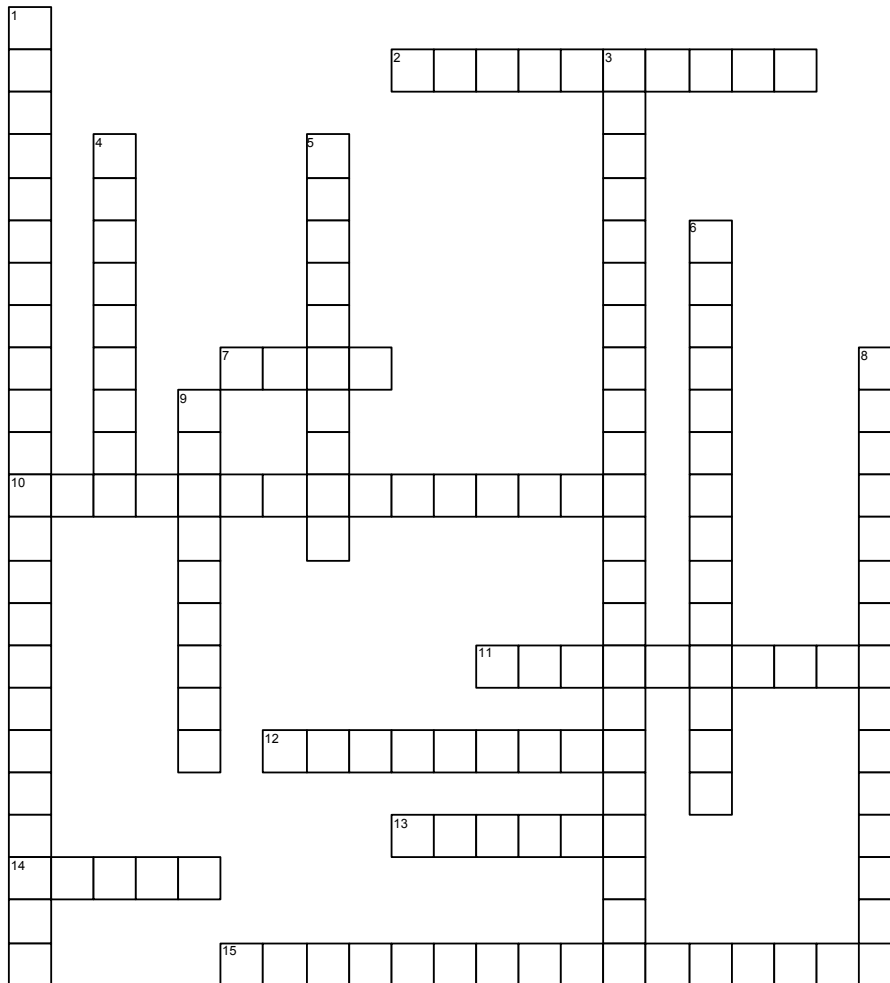


Exhaust Gas Recirculation Systems

Chapter 84



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ACROSS

- 2 Most Fords use an EGR monitor test sensor called a _____.
- 7 Gm calls the EGR valve-control solenoid an _____.
- 10 A P0400 DTC would indicate _____.
- 11 _____, also called spark knock or ping, occurs when high pressure and heat cause the air-fuel mixture to ignite.

- 12 Many PCM-controlled EGR systems have one or more _____ controlling the EGR vacuum.
- 13 The digital EGR valve offers precise control and using a swivel pintle design helps prevent _____ deposit problems.
- 14 The recirculated exhaust gas is _____ and does not enter into the combustion process.

- 15 Unlike vacuum-operated EGR valves, the _____ consists of three solenoids controlled by the PCM.

DOWN

- 1 _____ is an emission control system that lowers the amount of NOx formed during combustion.
- 3 A linear

- potentiometer on the top of the EGR valve stem indicates valve position to the PCM, this is called an _____.
- 4 Some later-model Ford EGR systems use a feedback signal provided by an EGR exhaust back pressure sensor that converts the exhaust back pressure to a voltage signal, this

sensor is called a

- _____.
- 5 _____ exhaust hoses should not be connected to the tailpipe on any vehicle while performing an inspection of the EGR system.
- 6 Most GM and many other vehicles use a _____ that contains a pulse-width modulated solenoid to precisely regulate exhaust gas flow and a feedback potentiometer that signals the PCM regarding the actual position of the valve.
- 8 In the presence of sunlight, _____ react with hydrocarbons in the atmosphere to form ozone or photochemical smog, an air pollutant.
- 9 EGR system operating is usually not required during _____.