Exhaust Gas Recirculation Systems Chapter 86



http://jameshalderman.com

ACROSS

- 1 Unlike vacuum-operated EGR valves, the ______
 _____ consists of three solenoids controlled by the PCM.
- 10 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.
- 11 In the presence of sunlight, _____ react with hy drocabrons in the atmosphere to form ozone or photochemical smog, an air pollutant.
- 13 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 _____.
- **14** _____ pressure EGR valves require a positive back pressure in the exhaust system.
- **15** Many PCM-controlled EGR systems have one or more _____ controlling the EGR vacuum.

DOWN

- 2 _____ recirculation is an emission control system that lowers the amount of NOx formed during combustion.
- **3** EGR system operating is usually not required during
- 4 GM calls the EGR valve-control solenoid an _____.
- 5 _____, also called spark knock or ping, occurs when high pressure and heat cause the air-fuel mixture to ignite.
- 6 Most Fords use an EGR monitor test sensor called a
- 7 The digital EGR valve offers precise control and using a swivel pintle design helps prevent _____ deposit problems.
- 8 A P0400 DTC would indicate _____.
- 12 The recirculated exhaust gas is _____ and does not enter into the combustion process.

