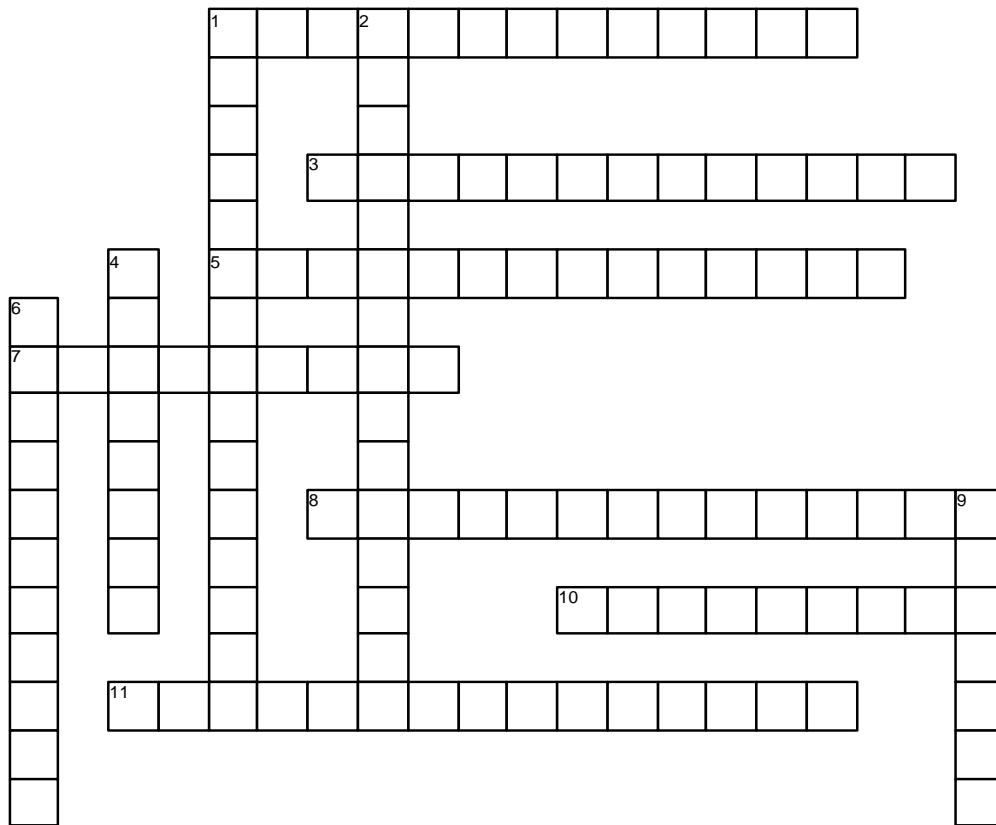


Air Induction and EGR Systems

Chapter 10



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ACROSS

- 1 The glow plug system on most current model vehicles is controlled by the glow plug _____.
- 3 _____ sensor is a sensor that allows the powertrain control module (PCM) to monitor the air pressure in the intake manifold.
- 5 _____ sensors are two-wire negative temperature coefficient (NTC) thermistors that measure the temperature of the exhaust gases being recirculated back into the intake air system.
- 7 _____ assembly includes the air filter, mass air flow/temperature sensor assembly and an air filter minder.
- 8 An _____ heater is used to warm the air as it enters the engine during a cold start and the subsequent warm-up period.
- 10 _____ are used to assist in starting the engine during cold weather conditions.
- 11 _____ is a gauge designed to show the difference between atmospheric pressure and the air pressure in the filter housing under maximum load and to alert the driver or service technician when the filter element needs to be serviced.

DOWN

- 1 _____ is a heat exchanger that is mounted between the turbocharger and the inlet side of the engine.; sometimes referred to as the intercooler.
- 2 Diesel engines produce little to no intake manifold vacuum. As a result, many manufacturers add an electronic throttle valve to induce greater EGR flow through the manifold. This valve is called the EGR air flow _____ valve.
- 4 an _____ is a valve that meters the flow of non-combustible exhaust gases into the intake manifold.
- 6 The _____ sensor is used to measure the amount of intake air the engine is using.
- 9 _____ is a condition where small dust and dirt particles enter the air induction system by bypassing the filter.