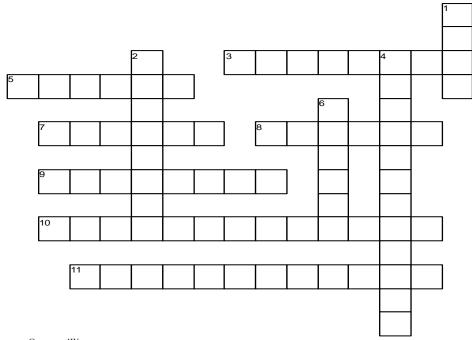


Advanced Engine Performance Diagnosis 8th Edition Chapter 16

Temperature and Throttle Position Sensors



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ACROSS

sensor increases.

3	position sensor: A sensor that monitors
	the position of the throttle valve, providing input to
	the PCM to regulate air intake and fuel injection.
5	Describes a sensor output that is inaccurate or
	incorrect, often caused by electrical issues such

as poor grounding or voltage reference problems.

7 The _____ air temperature sensor is a negative temperature coefficient (NTC) thermistor that decreases in resistance as the temperature of the

- 8 If the radiator cap is defective and ______ allow the cooling system to become pressurized, air pockets could develop.
- 9 ______ head temperature: A sensor that monitors the temperature of the cylinder head, providing critical data to the engine control module (ECM) for engine management.
- 10 A variable resistor used in sensors such as throttle position sensors (TP) to provide variable voltage output based on mechanical movement.
- 11 ______ fluid temperature: A sensor that monitors the temperature of the automatic transmission fluid, helping the PCM manage transmission shifts and torque converter lock-up for optimal performance.

DOWN

1	Engine temperature: A sensor that
	monitors the temperature of the fuel, used by the
	PCM to adjust fuel injection timing and optimize
	combustion.
2	temperature coefficient: A type of
	thermistor whose resistance decreases as
	temperature increases, commonly used in
	temperature sensors like ECT and IAT sensors.
4	temperature: A sensor that
	monitors the temperature of the throttle body,
	typically used to prevent throttle icing and manage
	idle air control.
6	coolant temperature: A sensor that
	measures the temperature of the engine coolant,
	providing essential input to the PCM for fuel

mixture, spark timing, and idle speed

adjustments.