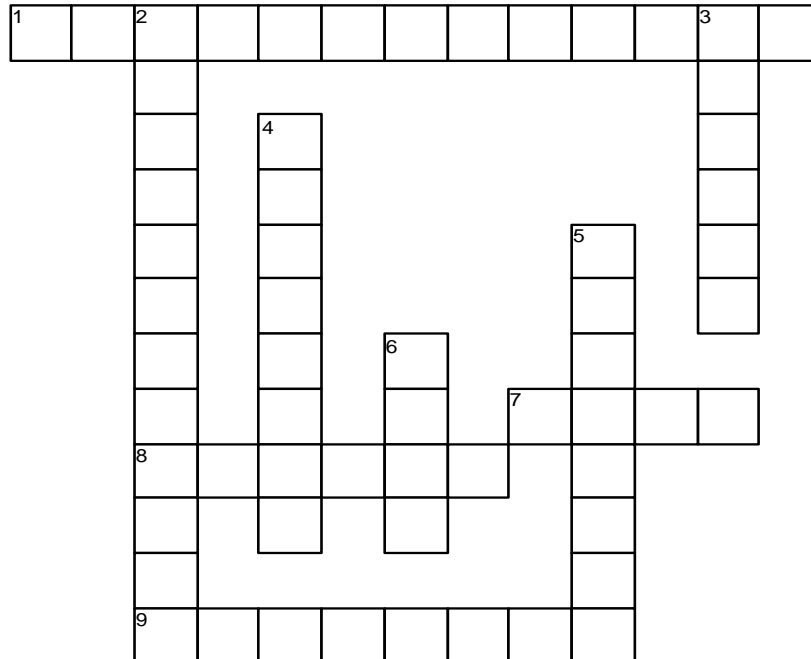


Automotive Electrical and Engine Performance 9th Edition

Chapter 31 - Temperature and Throttle Position Sensors



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ACROSS

- 1 A three-wire variable resistor used in sensors, such as the Throttle Position (TP) sensor, to provide varying voltage signals based on mechanical movement.
- 7 Throttle-_____ Temperature (TBT) Sensor: A sensor used to monitor the temperature at the throttle body, contributing to engine air-fuel mixture control.
- 8 _____ Sensor: A sensor that provides incorrect readings, either consistently high or low, due to faults or calibration issues.
- 9 _____ Temperature Coefficient (NTC) Sensor: A type of temperature sensor where resistance decreases as the temperature increases, commonly used in automotive temperature monitoring.

DOWN

- 2 _____ Fluid Temperature (TFT) Sensor: A sensor that measures the temperature of the transmission fluid to help the PCM control shift points and torque converter operation.
- 3 _____ Coolant Temperature (ECT) Sensor: A sensor that monitors the engine's coolant temperature and provides data to the Powertrain Control Module (PCM) for regulating engine performance and emissions.
- 4 _____ Head Temperature (CHT) Sensor: A sensor used to measure the temperature of the cylinder head, providing input to the engine control system for temperature management.
- 5 _____ Position (TP) Sensor: A sensor that measures the position of the throttle valve and sends signals to the PCM to adjust fuel delivery and ignition timing accordingly.
- 6 Engine _____ Temperature (EFT) Sensor: A sensor used to monitor the temperature and density of the fuel, often found in systems with electronic returnless fuel injection.