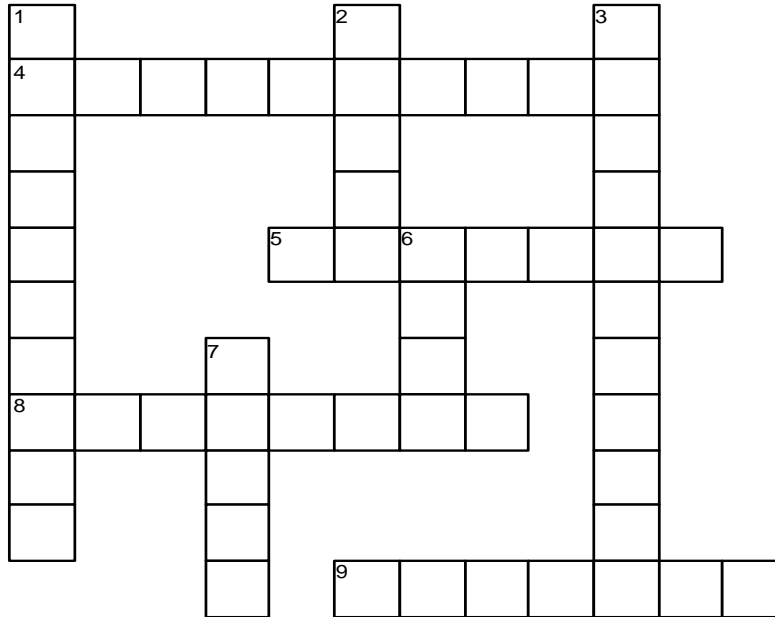


Automotive Electrical and Engine Performance 9th Edition

Chapter 37 - Electronic Throttle Control Systems



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ACROSS

- 4** _____ Throttle Control (ETC): A system that manages the throttle electronically using sensors, actuators, and control modules instead of mechanical linkages.
- 5** _____ Position: The resting position of the throttle plate when the system is not powered, typically slightly open to allow minimal airflow.
- 8** _____ Position (TP) Sensor: A sensor that monitors the position of the throttle plate and sends this data to the engine control module for adjusting engine parameters.
- 9** _____ Position: The position of the throttle plate or accelerator pedal when no throttle input is applied.

DOWN

- 1** An electric motor used to control the position of the throttle plate based on signals from the engine control unit.
- 2** _____-by-Wire: A system that replaces traditional mechanical throttle cables with electronic sensors and actuators for throttle control.
- 3** _____ Pedal Position (APP) Sensor: A sensor that measures the position of the accelerator pedal and sends signals to the engine control unit, helping regulate throttle opening and engine performance.
- 6** _____-Safe Position: A safety mode where the throttle plate moves to a predetermined position, allowing the vehicle to be driven slowly to a safe location in case of system failure.
- 7** _____-Down Stall: A condition where the engine stalls while decelerating, potentially indicating throttle body or idle air control issues.