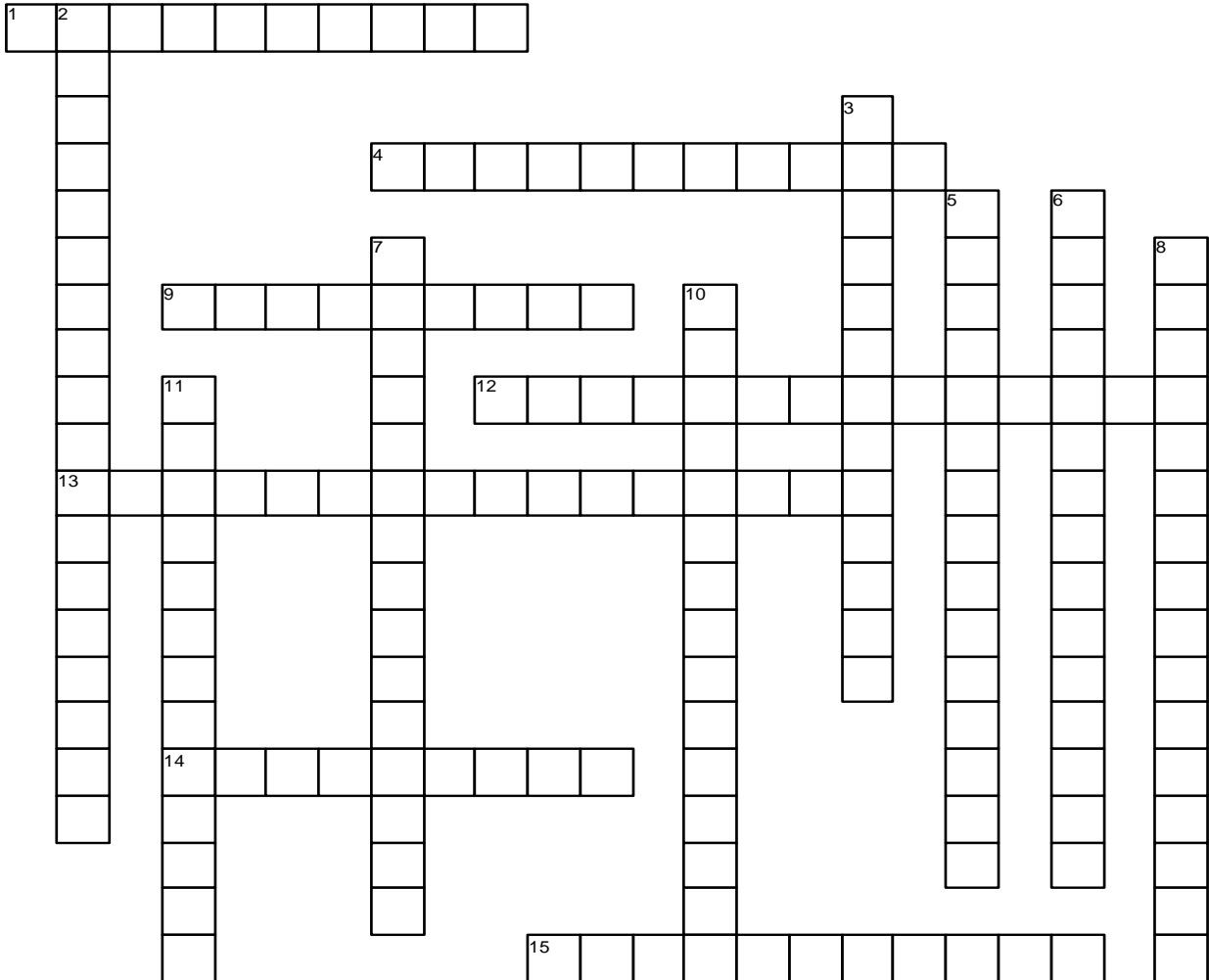


Electronic Throttle Control System

Chapter 39



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ACROSS

- 1 The actuator is a DC electric motor and is often called a _____.
- 4 The electronic throttle can be called _____.
- 9 A typical ETC system includes an _____.
- 12 An advantage of the ETC system is that it eliminates the need for an _____ valve.
- 13 A typical ETC system includes a _____ sensor.
- 14 When the engine dies when coming to a stop, it's called _____ stall.
- 15 The ETC system helps reduce pumping losses by using the electronic throttle to open at highway speeds with greater _____.

DOWN

- 2 Most vehicle manufacturers refer to an electronic throttle as _____ control.
- 3 An ETC system eliminates the need for _____ actuators and controllers.
- 5 An advantage of the ETC system is it is used to provide smooth _____, especially during rapid acceleration.
- 6 The partially open position is also called the _____.
- 7 The throttle plate is held in a _____ by a spring inside the throttle body assembly.
- 8 The partially open position is also called the _____.
- 10 The ETC system helps reduce engine power for _____ and electronic stability control systems.
- 11 An ETC system eliminates the mechanical _____, thereby reducing the number of moving parts.