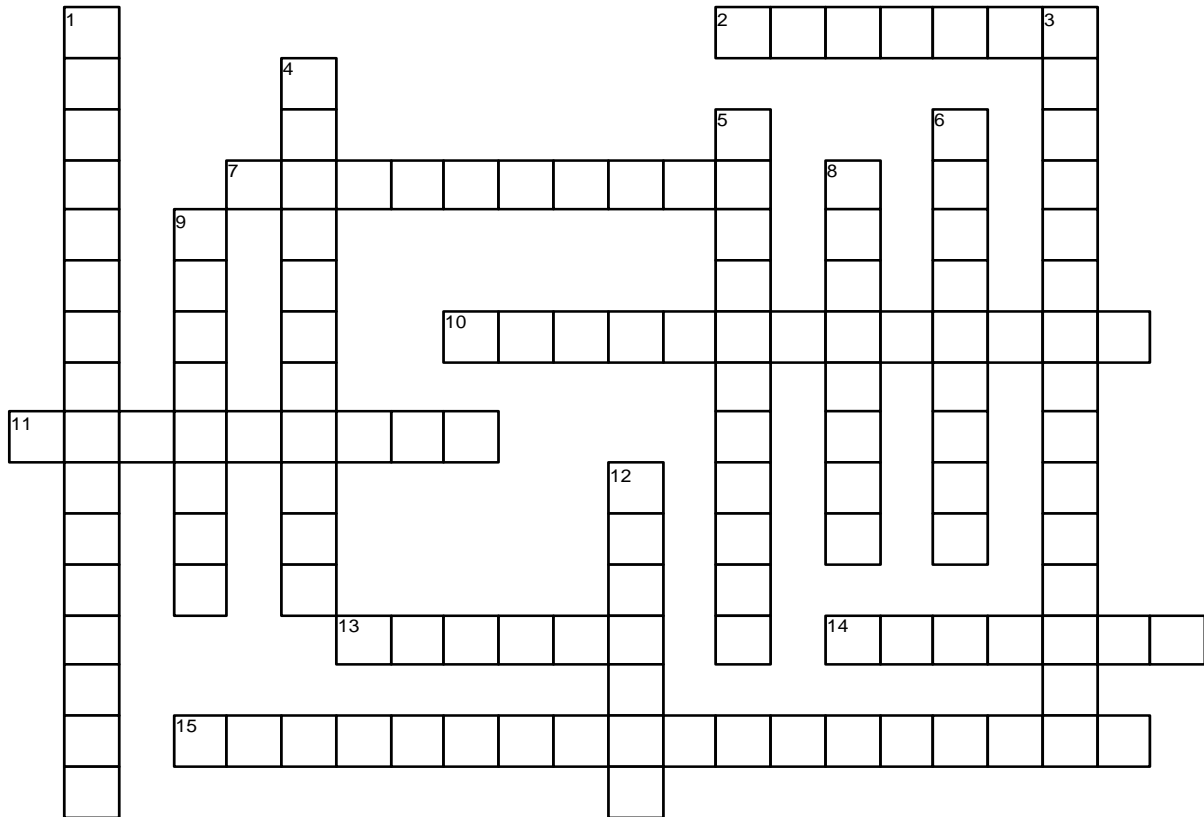


Electronic Throttle Control System

Chapter 77



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ACROSS

- 2 The throttle plate is held in a _____ position by a spring inside the throttle body assembly.
- 7 The actuator is a DC electric motor and is often called a _____.
- 10 An ETC system eliminates the need for _____ actuators and controllers.
- 11 A typical ETC system includes an ____ _____.
- 13 An advantage of the ETC system is it is used to provide smooth _____ operation, especially during rapid acceleration.
- 14 The partially open position is also called the _____ position.
- 15 Most vehicle manufacturers refer to an electronic throttle as _____ control.

DOWN

- 1 A typical ETC system includes a _____ sensor.
- 3 The ETC system helps reduce engine power for _____ and electronic stability control systems.
- 4 The ETC system helps reduce pumping losses by using the electronic throttle to open at highway speeds with greater ____ _____.
- 5 The electronic throttle can be called _____ - ____ - _____.
- 6 When the engine dies when coming to a stop, it's called _____ - _____ stall.
- 8 An ETC system eliminates the mechanical _____ cable, thereby reducing the number of moving parts.
- 9 The partially open position is also called the _____ position.
- 12 An advantage of the ETC system is that it eliminates the need for an _____ control valve.