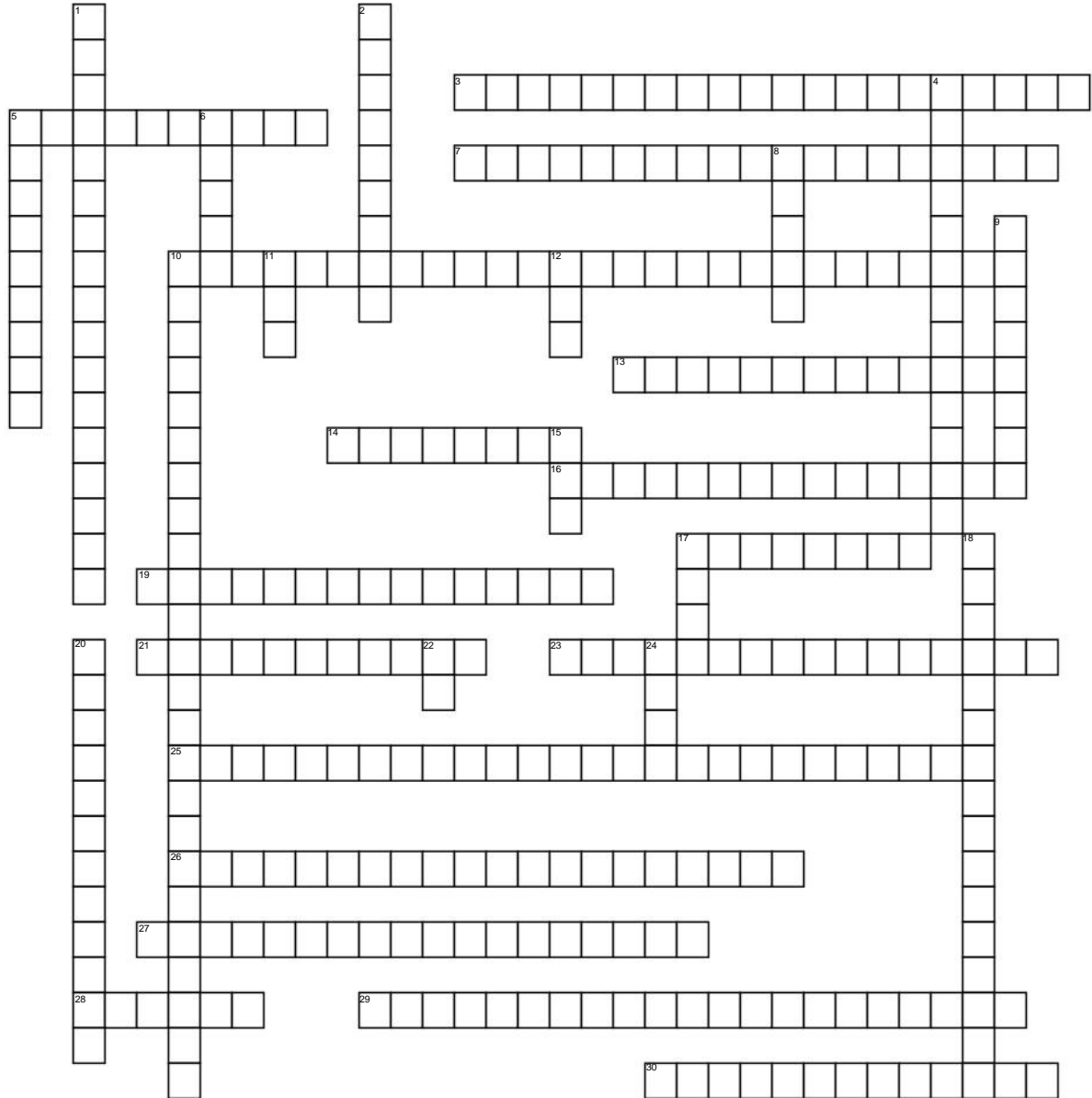


# Electronic Suspension Systems

## Chapter 9

**ACROSS**

- 3 The control of a solenoid using the pulsing-on-and-off method is called \_\_\_\_\_.
- 5 The amount of time the current is on compared to the amount of time it is off is called \_\_\_\_\_.
- 7 The switch that is used to select either touring or performance ride is found on the \_\_\_\_\_ system.
- 10 The function of the \_\_\_\_\_ is to provide the control module with signals relating to steering wheel position.
- 13 A simple \_\_\_\_\_ consists of a soft iron core with a coil of wire wrapped around it.
- 14 The electrical signal causes an \_\_\_\_\_ to perform some type of mechanical action.
- 16 In the \_\_\_\_\_ system will place the damping level in the firm mode regardless of vehicle speed.
- 17 The \_\_\_\_\_ is used by the EBCM to help control the suspension system.
- 19 In the \_\_\_\_\_, the damping level depends on vehicle speed.
- 21 General Motors version of ESC is called \_\_\_\_\_.
- 23 The \_\_\_\_\_ activates the bi-state dampers at all four corners of the



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- vehicle, allowing the driver to select vehicle ride characteristics.
- 25 The function of the \_\_\_\_\_ is to provide the suspension control module with feedback regarding vehicle cornering forces.
- 26 The \_\_\_\_\_ is a two- or three-mode switch, and is an input to the suspension control module.
- 27 \_\_\_\_\_ is fluid used in monotube-type shock absorbers.
- 28 The ECM is a small computer that receives input in the form of electrical signals from the sensors and switches and provides \_\_\_\_\_ electrical signals to the system actuators.
- 29 The \_\_\_\_\_ system automatically adjusts the rear height of the vehicle in response to changes in vehicle loading and unloading.
- 30 The \_\_\_\_\_ provides information to the suspension control module and the EBCM.
- DOWN**
- 1 The steering wheel position sensor is found on most \_\_\_\_\_ applications.
- 2 A dryer on the output side of the compressor contains silica gel \_\_\_\_\_, which removes moisture from the discharge air before it travels through the nylon air hoses to the air chamber of the rear shocks.
- 4 The \_\_\_\_\_ sensor is also known as a linear Hall-effect sensor.
- 5 A number of sensor designs are used to determine ride height, including a \_\_\_\_\_ type of sensor.
- 6 Sensors and switches provide \_\_\_\_\_ to the ECM.
- 8 A \_\_\_\_\_ uses this principle to convert electrical energy into mechanical movement.
- 9 By applying an electrical current to the \_\_\_\_\_, it rotates from a strong field area to a weaker field area.
- 10 The bi-state damper is also known as a \_\_\_\_\_.
- 11 Another name for the ECM is the \_\_\_\_\_.
- 12 Each photo interrupter consists of a \_\_\_\_\_ and a phototransistor.
- 15 Whenever working on the suspension system, check the \_\_\_\_\_ code for the type of suspension used.
- 17 The lateral accelerometer sensor is found on the more complex suspensions systems that incorporate the \_\_\_\_\_.
- 18 Inside the sensor, the LEDs and \_\_\_\_\_ are positioned opposite each other on each side of the slotted disc.
- 20 A \_\_\_\_\_ senses the vertical relationship between the suspension component and the body.
- 22 \_\_\_\_\_ is a system very similar to the ALC system.
- 24 The handwheel sensor produces two digital signals, which are used by the \_\_\_\_\_.