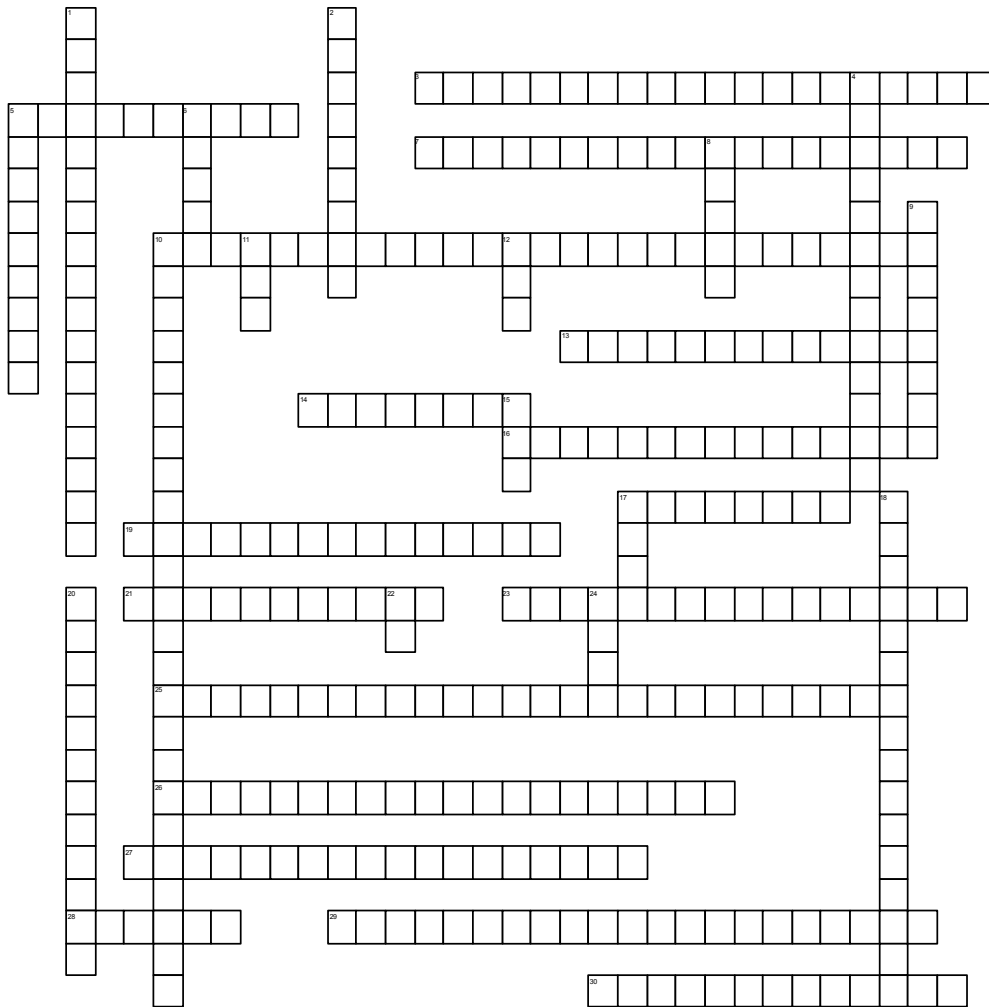


Electronic Suspension Systems

Chapter 115

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 _____, 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 _____ 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 _____.