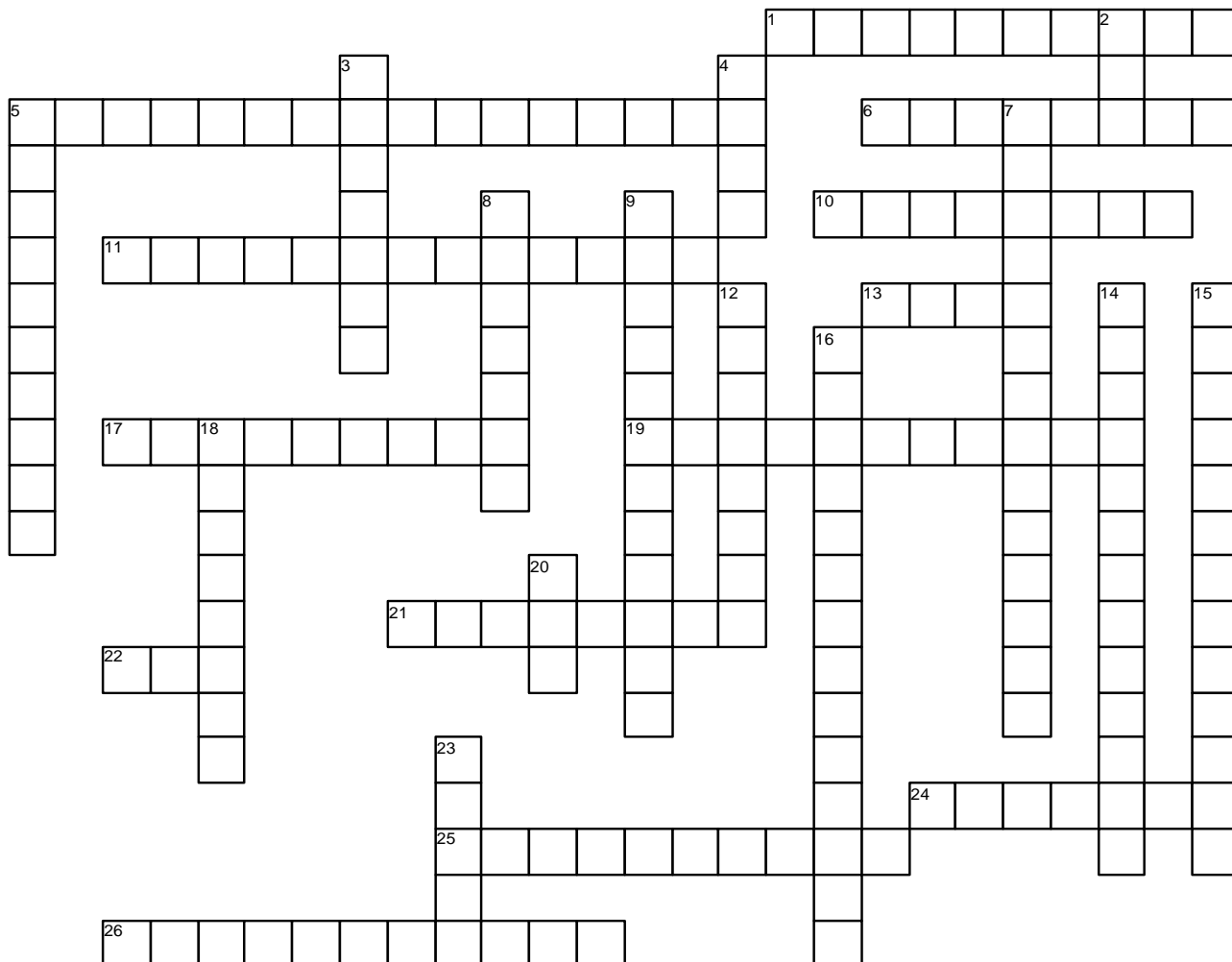


# Electronic Suspension Systems

## Chapter 114



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### ACROSS

- 1 The \_\_\_\_\_ switch activates the bi-state dampers at all four corners of the vehicle, allowing the driver to select vehicle ride characteristics.
- 5 Inside the sensor, the LEDs and \_\_\_\_\_ are positioned opposite each other on each side of the slotted disc.
- 6 By applying an electrical current to the \_\_\_\_\_, it rotates from a strong field area to a weaker field area.
- 10 The steering wheel position sensor is found on most \_\_\_\_\_ dampening applications.
- 11 A simple \_\_\_\_\_ consists of a soft iron core with a coil of wire wrapped around it.
- 13 The handwheel sensor produces two digital signals, which are used by the \_\_\_\_\_.
- 17 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.
- 19 In the \_\_\_\_\_ mode, the damping level depends on vehicle speed.

- 21 The \_\_\_\_\_ is used by the EBCM to help control the suspension system.
- 22 Whenever working on the suspension system, check the \_\_\_\_\_ code for the type of suspension used.
- 24 \_\_\_\_\_-rheological is fluid used in monotube-type shock absorbers.
- 25 The control of a solenoid using the pulsing-on-and-off method is called \_\_\_\_\_-\_\_\_\_\_ modulation.
- 26 General Motors version of ESC is called \_\_\_\_\_.

### DOWN

- 2 Another name for the ECM is the \_\_\_\_\_.
- 3 The function of the \_\_\_\_\_ accelerometer sensor is to provide the suspension control module with feedback regarding vehicle cornering forces.
- 4 The lateral accelerometer sensor is found on the more complex suspensions systems that incorporate the \_\_\_\_\_.
- 5 The amount of time the current is on compared to the amount of time it is off is called \_\_\_\_\_.
- 7 The \_\_\_\_\_ control system

- automatically adjusts the rear height of the vehicle in response to changes in vehicle loading and unloading.
- 8 The \_\_\_\_\_ sensor provides information to the suspension control module and the EBCM.
- 9 A \_\_\_\_\_ senses the vertical relationship between the suspension component and the body.
- 12 The electrical signal causes an \_\_\_\_\_ to perform some type of mechanical action.
- 14 The function of the \_\_\_\_\_ position sensor is to provide the control module with signals relating to steering wheel position.
- 15 The \_\_\_\_\_ sensor is also known as a linear Hall-effect sensor.
- 16 The \_\_\_\_\_ switch is a two- or three-mode switch, and is an input to the suspension control module.
- 18 The bi-state damper is also known as a \_\_\_\_\_ controlled damper.
- 20 Each photo interrupter consists of a \_\_\_\_\_ and a phototransistor.
- 23 Sensors and switches provide \_\_\_\_\_ to the ECM.