Automotive Technology 7th Edition
Chapter 114: Electronic Suspension Systems
Short Answer Quiz

Name: Date:

1. How does the ECM control the amount a solenoid opens in an air suspension system?

2. Describe the process by which an actuator motor converts electrical energy into mechanical movement.

3. Explain the function of the exhaust solenoid in the air suspension system.

4. What is the role of the air dryer within the air compressor assembly in an air suspension system?

5. How does the magneto-rheological suspension system adjust the firmness of the shock absorber?

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6. Can computer-controlled shock absorbers and struts be replaced with conventional units, and what considerations must be taken into account?

7. What is the significance of the yaw rate sensor in an electronic suspension system, and where is it typically located?

8. Describe the function of a lateral accelerometer sensor in an electronic suspension system.

9. What does an excessively running ride height compressor indicate about the air suspension system?

10. How does the MR fluid in shock absorbers respond to an electrical current, and what is the result of this response?