

Automotive Technology 7th Edition
Chapter 118: Electric Power Steering Systems
Short Answer Quiz

Name:

Date:

1. Describe the function of the EPS electronic control unit (ECU) in electric power steering systems and how it determines the amount of assist needed.
2. Explain the role of the steering torque sensor in an EPS system and how it interacts with the ECU.
3. What are the components of the EHPS power pack in the electrohydraulic power steering system used on the Chevrolet Silverado mild hybrid truck?
4. How does the power steering control module (PSCM) vary the amperage to the assist motor in an EPS system?
5. What is the function of detection rings in a column-mounted EPS system, and how do they contribute to the system's operation?

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6. In the context of electric power steering systems, what is the significance of the 60 ampere fuse shown in Figure 118–10, and what can cause it to blow?

7. How do self-parking systems utilize electric power steering to steer the vehicle, and what sensors are involved in this process?

8. What diagnostic equipment is typically necessary to diagnose faults or relearn the electric power steering system?

9. What is the relationship between the power steering control module (PSCM) and the powertrain control module (PCM) in an EPS system?

10. Describe a scenario where the self-parking system might be disabled due to a sensor fault and how a driver's actions can affect the system's operation.