

Automotive Technology 7th Edition
Chapter 88: Hybrid and Electric Vehicle Maintenance
Short Answer Quiz

Name:

Date:

1. What are the potential consequences of improper maintenance that could lead a customer to believe the high-voltage battery is failing?

2. Describe the voltage levels at which electric power steering systems operate and the importance of capacitors in these systems.

3. What are the key considerations when servicing an electric air-conditioning compressor in hybrid or electric vehicles?

4. Explain the purpose of the high-voltage battery cabin filter in hybrid and electric vehicles.

5. Why is the eight-step diagnostic procedure critical in diagnosing hybrid or electric vehicles?

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6. Discuss the reasons why most hybrid vehicles use full synthetic engine oil and the benefits associated with it.

7. Why do manufacturers recommend using premixed coolant for hybrid or electric vehicle cooling systems, and what are the potential issues with using tap water?

8. What maintenance challenges are associated with the base brake systems in the "salt belt" regions, and how does regenerative braking contribute to these challenges?

9. What special procedures must be followed when repairing a puncture on a noise-reducing tire, and why?

10. How does tire service differ for hybrid or electric vehicles compared to conventional vehicles, particularly regarding tire pressure and fuel economy?