

Automotive Technology 7th Edition
Chapter 57: Body Electrical Accessories
Short Answer Quiz

Name:

Date:

1. Describe the principle behind the operation of the thermoelectric device (TED) used in heated and cooled seats. How does the Peltier effect play a role in this?
2. Explain the process and precautions associated with diagnosing a fault in the remote engine start system. Why is it crucial to ensure the vehicle is not located inside a garage during this process?
3. How do rain-sense wipers function, and what technology do they utilize to detect the presence of rain on the windshield?
4. Detail the steps involved in accessing and determining module communications for body electrical systems diagnosis.
5. Describe the process of software transfers, updates, or flash reprogramming in the context of electronic modules in vehicles. Why might this be necessary?

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6. How do over-the-air (OTA) module updates work, and which vehicle manufacturer was the first to use this technology?

7. Explain the significance of the temperature sensor in heated seats. How does it help in regulating the temperature of the seat?

8. What is the purpose of the fan in the context of heated and cooled seats? How does it assist in the operation of the thermoelectric device?

9. Describe the mechanism behind the operation of power seats. What should drivers be cautious about when using power seats?

10. Explain the concept of a "rolling code" in the context of body electrical accessories. Why is it important for security?