

Automotive Technology 7th Edition
Chapter 55: Security and Immobilizer Systems
Short Answer Quiz

Name:

Date:

1. Describe the communication process between the key and the transceiver in a typical immobilizer circuit. How does the transceiver communicate with the immobilizer module?

2. Explain the significance of the "SK3" stamp on a key in relation to the Passkey III systems. What functionalities do these systems disable and how do they indicate a malfunction?

3. Discuss the role of the antenna coil in the immobilizer system. How does it interact with the transponder key?

4. What is the purpose of the "Content Thief Protection" system in vehicles? How does it detect unauthorized access or potential thefts?

5. Differentiate between the functionalities of the key fob's Radio Frequency Identification (RFID) system and its remote keyless entry (RKE) system. How do they operate and what powers them?

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6. Describe the Passlock series of General Motors security systems. How does it utilize a conventional key and what components are involved in its operation?

7. Explain the significance of diagnostic trouble codes (DTCs) in diagnosing immobilizer system issues. Why might a technician need to look under chassis or body systems for these codes?

8. Discuss the role of Technical Service Bulletins (TSBs) in diagnosing and repairing vehicle issues. How can they assist technicians in addressing specific problems?

9. Describe the potential outcomes when an immobilizer system detects a fault. How does the system respond to different types of faults, and what indications might be given to the driver?

10. Explain the concept of "tamper mode" in the context of vehicle security systems. What triggers this mode and how does the system respond?