

Automotive Technology 7th Edition
Chapter 52: Charging System Diagnosis and Service
Short Answer Quiz

Name:

Date:

1. Explain the importance of the junction between the rectifier bridge and the voltage regulator in an alternator. How is this connection typically secured?

2. When replacing a rectifier, what type of compound is applied to the heat sink, and why might a replacement unit differ in appearance from the original?

3. What are the acceptable resistance values between the slip rings on a CS-130 rotor, and what should the reading be between a slip ring and the rotor shaft?

4. Describe the process of separating the stator from the rectifier in an alternator overhaul. What tool is recommended for cutting the weld, and why is it important to mark the case halves before separation?

5. What are the potential risks of not upgrading the wiring and fusible links in the alternator circuit during an alternator upgrade?

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6. Discuss the importance of upgrading wiring and fusible links in the alternator circuit, especially after physical installation of new components.

7. Explain the "Lighter Plug Trick" mentioned in the document. How does it aid in diagnosing charging system issues?

8. What precautions should be taken when upgrading the alternator in a vehicle, especially concerning the wiring and fusible links?

9. Explain the significance of the tensioner marks in the context of drive belt inspection and replacement.

10. Discuss the importance of visual inspections, especially concerning connections and terminals, before diving into more complex repairs.