

Automotive Technology 7<sup>th</sup> Edition  
Chapter 50: Starting System Diagnosis and Service  
Short Answer Quiz

Name:

Date:

1. Describe the process of removing the armature assembly from the field frame during a starter overhaul.
2. Explain the difference in length and diameter between a direct-drive starter armature and a gear-reduction armature.
3. What is the significance of the small needle bearings inside one of the planetary gears?
4. Detail the diagnostic steps taken in the "No-Crank Camaro" case study and the solution that was implemented.
5. What are the potential causes of excessive current draw in a starting system?

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6. Describe the steps and procedures recommended by most vehicle manufacturers for starter removal.

7. Explain the importance of observing the brightness of the dome or interior light(s) when diagnosing starter-related problems. What different observations might indicate?

8. During the starter overhaul, after the gear retainer has been installed over the gear-reduction assembly, what is the next step?

9. Describe the voltmeter hookups for voltage drop testing of a solenoid-type cranking circuit?

10. What are the potential causes of a starter motor producing a grinding noise?