

Automotive Technology 7<sup>th</sup> Edition  
Chapter 69: Ignition System Diagnosis and Service  
Short Answer Quiz

Name:

Date:

1. Describe the significance of using Original Equipment Manufacturer (OEM) spark plugs in vehicles, and explain a scenario where a customer preferred OEM spark plugs over other brands.
2. Explain the "Two-Finger Trick" mentioned in the document. How does it help technicians during spark plug installation?
3. What is the purpose of a spark plug thread chaser, and when might a technician need to use it?
4. Discuss the visual indications on spark plugs that can lead to the root cause of an engine performance problem. Provide examples of specific indications and their potential causes.
5. Describe the relationship between the height of the firing line and the length of the spark line in an ignition system, as illustrated using a rope in the document.

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6. Explain the significance of the firing line being higher on the cylinder that is under compression. How does this relate to the power and waste spark waveforms?

7. What is the role of the Automatic Shutdown (ASD) relay in the ignition system, as mentioned in the document?

8. Describe the procedure for checking for spark in the event of a no-start condition. What are the key steps involved?

9. Explain the importance of inspecting spark plug wires for proper routing as part of a visual inspection of the ignition system.

10. Discuss the use of a water spray bottle in ignition system diagnostics. How can it help technicians identify specific issues?