

Automotive Engines 10th

Quiz 26B

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1. Technician A says that valve springs should be tested for squareness and proper spring force. Technician B says that the exhaust valve is about 50 percent of the size of the intake valve. Which technician is correct? 1. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B
2. Which of the following statements is true about valve seats? 2. _____
 - A) Insert seats are used only in cast-iron heads.
 - B) Insert seats do not fit into a machined recess in the cylinder head of automotive engines.
 - C) Exhaust valve seats run cooler in aluminum heads than in cast-iron heads.
 - D) Integral exhaust valve seats operate at hotter temperatures than do insert seats.
3. Never remove more material from the tip of a valve than _____ inches. 3. _____
 - A) 0.001
 - B) 0.002
 - C) 0.020
 - D) 0.050
4. The proper relationship between intake and exhaust valve diameter is _____. 4. _____
 - A) intake valve size is 85% of exhaust valve size
 - B) exhaust valve size is 85% of intake valve size
 - C) exhaust valve size is 38% of intake valve size
 - D) intake valve size is 45% of exhaust valve size
5. Dampers (damper springs) are used inside some valve springs to _____. 5. _____
 - A) prevent valve spring surge
 - B) keep the valve spring attached to the valve
 - C) decrease valve spring pressure
 - D) retain valve stem seals
6. If an interference angle is machined on a valve or seat, the angle is usually _____. 6. _____
 - A) 1 degree
 - B) 0.005 degree
 - C) 1-3 degree
 - D) 0.5-0.75 degree
7. Technician A says that a pilot is placed into the valve guide to position the stone or cutter correctly for resurfacing the valve seat. Technician B says that he installed height should be checked and corrected with oversized valves, if needed. Which technician is correct? 7. _____
 - A) Technician A only
 - B) Technician B only
 - C) Both technicians A and B
 - D) Neither technician A nor B

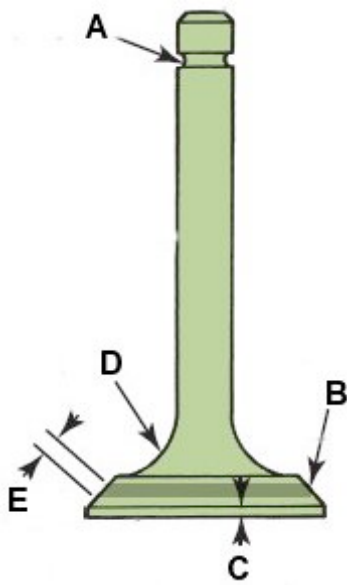
8. A valve seat should be concentric to the valve guide to a maximum TIR (total indicator runout) of _____. 8. _____

- A) 0.006 in.
- B) 0.004 in.
- C) 0.002 in.
- D) 0.0015 in

9. A valve should be discarded if the margin is less than _____ inches after refacing. 9. _____

- A) 0.001
- B) 0.006
- C) 0.03
- D) 0.06

10. Which part of the valve is called the valve margin? 10. _____



- A) A
- B) B
- C) C
- D) D
- E) E

Answer Key

Testname: ENGINES 10 26B

1. A
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2. C
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3. C
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4. B
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5. A
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6. A
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7. A
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8. C
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