

Automotive Technology 7th Edition
Chapter 32: Crankshafts, Balance Shafts, and Bearings
Matching Quiz

Name: _____ Date: _____

Matching: Choose the item in column 2 that best matches each item in column 1.

- | | | |
|-------------------------------------|---|-----------|
| 1. Crankshaft | A. Helps reduce secondary vibrations in an engine | 1. _____ |
| 2. Main Bearing Journals | B. Should be inspected for cracks, scored journals, and thread damage | 2. _____ |
| 3. Counterweights | C. The number of cylinders that fire at 90 degrees of crankshaft rotation in a four-cylinder engine | 3. _____ |
| 4. Fully Counterweighted Crankshaft | D. The type of crankshaft used in some high-performance vehicles | 4. _____ |
| 5. Primary Vibrations | E. The component responsible for transmitting engine power to the transmission | 5. _____ |
| 6. Balance Shaft | F. The smoothest running and most durable type of crankshaft | 6. _____ |
| 7. Flat Crankshaft | G. Typical clearance is 0.0005 to 0.0025 inch (0.013 to 0.063 mm) | 7. _____ |
| 8. Journal-to-Bearing Clearance | H. Caused by the up-and-down motion of the pistons | 8. _____ |
| 9. Flexplate | I. Used to reduce vibrations caused by the inertia of the reciprocating components | 9. _____ |
| 10. Four-Cylinder Engine Firing | J. Surfaces on the crankshaft where the main bearings ride | 10. _____ |

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Answer Key

Answer Key:

1. B
2. J
3. I
4. F
5. H
6. A
7. D
8. G
9. E
10. C