

Automotive Technology 7th Edition
Chapter 22: Turbocharging and Supercharging
Matching Quiz

Name: _____ Date: _____

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

- | | | |
|--------------------------|--|-----------|
| 1. Volumetric Efficiency | A. An engine-driven air pump that increases charge density. | 1. _____ |
| 2. Naturally Aspirated | B. A valve that controls boost by allowing exhaust to bypass the turbine wheel. | 2. _____ |
| 3. Forced Induction | C. The delay between throttle opening and the delivery of boost pressure. | 3. _____ |
| 4. Boost | D. The process of using an air pump to pack a denser air-fuel charge into the cylinders. | 4. _____ |
| 5. Supercharger | E. A device that uses energy from exhaust gas to power a turbine and compressor. | 5. _____ |
| 6. Turbocharger | F. A measure of how well an engine breathes, comparing actual air intake to the theoretical maximum. | 6. _____ |
| 7. Turbo Lag | G. A heat exchanger used to cool the compressed air before it enters the engine. | 7. _____ |
| 8. Intercooler | H. A term defining the amount of the air-fuel charge introduced into the cylinders. | 8. _____ |
| 9. Wastegate | I. The increase in air pressure above atmospheric pressure within the intake manifold. | 9. _____ |
| 10. Charge Density | J. An engine that uses atmospheric pressure for its intake charge. | 10. _____ |

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Answer Key

Answer Key:

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