

Automotive Technology 7th Edition
Chapter 91: Regenerative Brakes
Matching Quiz

Name: _____

Date: _____

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

- | | | |
|--------------------------------------|---|-----------|
| 1. Inertia | A. A less complex system where friction brakes are used along with energy recovery by the motors. | 1. _____ |
| 2. Kinetic energy | B. A driving mode where the driver only needs to use the accelerator pedal to accelerate and decelerate. | 2. _____ |
| 3. Regeneration | C. A scan tool function used to disable the brake self-test, which prevents brake pressure from being applied during service. | 3. _____ |
| 4. Series regeneration | D. The process of converting the energy of a moving object into electrical energy to recharge the high-voltage battery. | 4. _____ |
| 5. Parallel regeneration | E. The conventional friction brakes that are used regularly to keep rotors free from rust and to stop the vehicle. | 5. _____ |
| 6. One-pedal driving | F. The energy of a moving object | 6. _____ |
| 7. Deceleration rates | G. Measured in units of "feet per second, per second" | 7. _____ |
| 8. Base brakes | H. The resistance of an object to a change in its state of motion. | 8. _____ |
| 9. Brake pedal position (BPP) sensor | I. A sensor that often uses Hall-effect elements and magnets to determine the position and speed of the brake pedal as the driver presses it. | 9. _____ |
| 10. "Pad Service Mode" | J. A system where the amount of regeneration is proportional to brake pedal position and is blended with the service brakes | 10. _____ |

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Answer Key

Answer Key:

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