

Automotive Technology 7th Edition
Chapter 126: Four-Wheel Drive and All-Wheel Drive
Matching Quiz

Name: _____ Date: _____

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

- | | | |
|-----------------------------------|---|-----------|
| 1. Transfer Case | A. A sealed clutch unit that uses silicone fluid to lock a differential when wheel speed differences occur. | 1. _____ |
| 2. Locking Hubs | B. The outer gear with internal teeth in a planetary gear set. | 2. _____ |
| 3. Viscous Coupling | C. A transfer case selection between two-wheel drive and four-wheel drive. | 3. _____ |
| 4. Interaxle Differential | D. Directs engine torque to the front and rear axle assemblies. | 4. _____ |
| 5. All-Wheel Drive (AWD) | E. Allows torque to be applied to the front wheels without changes in speed, especially during turns. | 5. _____ |
| 6. Mode Shift | F. The center gear in a planetary gear set. | 6. _____ |
| 7. Range Shift | G. A system that uses a transfer case with a center differential but does not have a low range. | 7. _____ |
| 8. Sun Gear | H. Allows for speed differences between the front and rear axles to prevent driveline windup. | 8. _____ |
| 9. Ring Gear (Planetary) | I. A transfer case selection between a high and low gear ratio. | 9. _____ |
| 10. Constant Velocity (CV) Joints | J. Manually or automatically connects the front wheels to the front drive axle. | 10. _____ |

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Answer Key

Answer Key:

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