

Automotive Technology 7th Edition
Chapter 122: Manual Transmissions/Transaxles
Matching Quiz

Name: _____ Date: _____

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

- | | | |
|-------------------|--|-----------|
| 1. Gear Ratio | A. A mechanism that equalizes the speed of two gears before they mesh to allow for a smooth shift. | 1. _____ |
| 2. Gear Reduction | B. A gear type with teeth cut at an angle to its axis, allowing for quieter operation. | 2. _____ |
| 3. Overdrive | C. A gear ratio that results in an increase in torque and a decrease in speed. | 3. _____ |
| 4. Helical Gear | D. A unit that combines the transmission and the differential into one assembly. | 4. _____ |
| 5. Spur Gear | E. The simplest gear type, with strong, straight-cut teeth that are often noisy during operation. | 5. _____ |
| 6. Countershaft | F. The relationship between the number of turns of a drive gear to one turn of the driven gear. | 6. _____ |
| 7. Synchronizer | G. A gear ratio of 1:1, where the output shaft speed is the same as the input shaft speed. | 7. _____ |
| 8. Blocker Ring | H. A component of a synchronizer that uses friction to match gear speeds. | 8. _____ |
| 9. Transaxle | I. A gear ratio that results in a decrease in torque and an increase in speed. | 9. _____ |
| 10. Direct Drive | J. Also called a lay shaft, it holds the cluster gears that are in constant mesh with the main shaft gears | 10. _____ |

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Answer Key

Answer Key:

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