

Automotive Technology 7th Edition
Chapter 119: Wheel Alignment Principles
Matching Quiz

Name: _____

Date: _____

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

- | | | |
|------------------------------------|---|-----------|
| 1. Camber | A. The most important alignment angle for minimizing tire wear. | 1. _____ |
| 2. Caster | B. A nonadjustable measurement that indicates if one front wheel is positioned further back than the other. | 2. _____ |
| 3. Toe | C. The forward or rearward tilt of the steering axis when viewed from the side of the vehicle. | 3. _____ |
| 4. Steering Axis Inclination (SAI) | D. The angle determined by the total toe of the rear wheels, indicating the direction the rear of the vehicle will track. | 4. _____ |
| 5. Included Angle | E. The inward or outward tilt of the top of the tire from a true vertical line. | 5. _____ |
| 6. Scrub Radius | F. The combination of the Steering Axis Inclination (SAI) and camber angles. | 6. _____ |
| 7. Toe-Out on Turns | G. The principle that the inside wheel must turn at a sharper angle than the outside wheel during a turn. | 7. _____ |
| 8. Setback | H. The distance between the steering axis centerline and the tire centerline where they contact the road surface. | 8. _____ |
| 9. Thrust Angle | I. A definite tug on the steering wheel toward one side while driving straight. | 9. _____ |
| 10. Pull | J. The inward tilt of the steering axis, also known as kingpin inclination (KPI) | 10. _____ |

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Answer Key

Answer Key:

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