Automotive Technology 7th Edition
Chapter 120: Alignment Diagnosis and Service
Short Answer Quiz

Name: Date:

1. What is the impact on vehicle handling if the camber and caster specifications are not exactly equal on both sides of the front of the vehicle?

2. Describe the process of using the "Plus or Minus Method" for alignment settings and provide an example of how it is applied.

3. Explain the significance of the thrust line in vehicle alignment and how it affects the vehicle's tracking.

4. What are the implications of a shifted frame on a front-wheel-drive vehicle's alignment, and how can it be detected?

5. How can differences in SAI and camber angles indicate potential frame damage, and what should be done if these differences are observed?

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6. What are the steps involved in converting toe measurements from fractional inches to decimal degrees and why is this conversion necessary?

7. Describe the methods that can be used to adjust front caster and camber, including the use of shims and eccentric cams.

8. What are the prealignment checks that should be performed before checking and adjusting wheel alignment?

9. How do you determine the midpoint of a specification range, and why is this important in alignment diagnosis?

10. What is the difference between a lead (drift) and a pull in vehicle alignment, and what are the potential causes and corrections for each?