

Automotive Technology 7th Edition
Chapter 110: Tire and Wheel Service
Short Answer Quiz

Name:

Date:

1. What is the significance of the tire inflation pressure indicated on the driver's door or pillar sticker?
2. How does temperature affect tire inflation pressure and what is the typical PSI loss with a 10-degree drop in temperature?
3. What are the consequences of a tire being underinflated by 10 PSI in terms of load capacity and tire life?
4. Describe the "modified X method" of tire rotation and its importance for both front-wheel and rear-wheel drive vehicles.
5. What should a technician look for when inspecting tires by rotating them by hand on a frame-type lift?

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6. Explain the difference in wear patterns between underinflation and overinflation of tires.

7. What is the recommended action if a lug nut is hard to turn when removing a wheel, and why is this procedure important?

8. Discuss the relationship between tire inflation pressure and fuel economy, including the impact of a drop from 30 to 23 PSI.

9. Why should wheel studs/nuts not be lubricated with oil or grease during tire service?

10. What is the TREAD Act and what does it specify regarding tire inflation notifications for the driver?