

Name \_\_\_\_\_

**SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.**

1) What are the most commonly used tire rotation methods?

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2) Why is a pin plate used on some wheels when attaching it to a balancer?

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3) What is the difference between static and dynamic balance?

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4) What are the precautions and recommendations regarding tire maintenance?

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5) How are lateral and radial runout of wheels and tires checked?

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## Answer Key

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- 1) The method most often recommended is the modified X method.  
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- 2) A pin plate adapter that is designed to support the wheel/tire assembly on a tire balancer instead of using a centering cone. Pin plates are often specified to attach a chrome clad wheel to the tire balancers to insure an accurate balance  
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- 3) Static balance is balancing in one plane or direction. Static balance does not account for any "wobble" or imbalance inside or outside of a tire/wheel assembly. Dynamic balance is balancing in two planes and accounts for imbalance both radially and laterally.  
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- 4) The precautions and recommendations regarding tire selections and maintenance include: maintaining correct tire pressures, avoiding overloading the vehicle, keeping the tires balanced and rotated regularly.  
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- 5) Radial runout checks that the wheel and tire are round. Lateral runout checks for side-to-side movement that can cause a vibration. Both are checked with the wheels off the ground and using a dial gauge.  
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