

*Automotive Engines 10th*

**Chapter 7 Vehicle Lifting and Hoisting**

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

1. How is a floor jack operated?
2. What precautions should be adhered to when hoisting a vehicle?
3. What precautions should be adhered to when storing a creeper?
4. Where should the hoist pads be located under the vehicle?
5. Why must safety stands be used after lifting a vehicle with a floor jack?

## Answer Key

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1. A floor jack is a hand-operated hydraulic device that is used to lift vehicles or components, such as engines, transmissions, and rear axle assemblies.  
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2. When hoisting a vehicle, the technician should first be certain that the pads are correctly set. The vehicle should be raised about one foot, and then checked for stability before raising it further. Use care while lowering the vehicle and always follow the hoist manufacturer's instructions.  
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3. A creeper should always be stored vertically and never on its wheels. This helps prevent a technician from accidentally stepping on it, losing balance, and falling.  
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4. All automobile and light-truck service manuals include recommended locations to be used when hoisting (lifting) a vehicle. Some vehicles have a decal on the driver's door indicating the recommended lift points.  
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5. Safety stands must always be used to hold up a vehicle after a floor jack has been used to lift the vehicle. Safety stands are rigid and designed to hold the weight of a vehicle, whereas a hydraulic jack may leak internally, causing the vehicle to lower.  
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