Chassis Systems 8th Edition
Chapter 25

Name_____

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

1) What is the purpose and function of a stabilizer bar?

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2) What is the purpose and function of bump stops?

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3) What are the types of suspensions and their component parts?

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4) What is the difference between a load-carrying and a follower (friction) ball joint?

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5) What does Hooke's Law state?

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1) A stabilizer bar is used to limit body roll during cornering.
Page Ref: 415

2) If a bump in the road is large enough, the suspension is compressed to its mechanical limit. Instead of allowing the metal components of the suspension to hit the frame or body of the vehicle, a rubber or foam bumper is used to absorb and isolate the suspension from the frame or body.
Page Ref: 422

3) Types of suspensions include coil spring, torsion bar, and leaf spring types. Most types use control arms or links to provide longitudinal (front-to-back) and transverse
(side-to-side) support.
Page Ref: 401-411

4) A load-carrying ball-joint supports the weight of the vehicle, whereas a friction (follower) ball-joint acts as a pivot point for the suspension.
Page Ref: 412

5) Hooke's Law states that the deflection of a spring is directly proportional to the applied force.
Page Ref: 402