

Automotive Technology 7<sup>th</sup> Edition  
Chapter 56: Airbag and Pretensioner Circuits  
Short Answer Quiz

Name:

Date:

1. Explain the purpose and function of a seat belt pretensioner in the event of a collision.
2. Describe the differences between a low-stage deployment and a high-stage deployment of an airbag.
3. What precautions should be taken when handling a deployed inflator module and why?
4. How does the passenger presence system (PPS) determine the weight of the occupant in the passenger seat? Mention the different types of sensors used.
5. What is the significance of the color yellow in the context of airbag-related circuits?

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6. Describe the role of the clockspring in the steering column and its importance for the airbag system.

7. How does the event data recorder (EDR) function in relation to airbag deployment, and what parameters does it record?

8. Explain the three collisions that occur during a vehicle crash and the significance of safety belts in this context.

9. How does the airbag system determine the force of deployment based on the weight detected on the passenger seat?

10. What is the purpose of the auxiliary power supply in most airbag systems, and how does it function during a collision?