

Name _____

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

1) How is the high-voltage electrical system disconnected in a Honda hybrid electric vehicle?

2) What is the difference between fuel-cut mode and idle stop mode?

3) What are the conditions that must be met for auto idle stop to occur?

4) What are the differences in the engines used in Honda hybrid vehicles as compared to similar non-hybrid vehicles?

5) What features are used on the Honda Accord hybrid to reduce noise and vibration?

6) What are the safety and service procedures when working on Honda hybrid electric vehicles?

Answer Key

Testname: HYBRID4_SHORT13

- 1) The high-voltage system is disconnected when the ignition is turned off. However, to be sure, a service switch behind the rear seat must be switched to the "off" position. Disconnection the 12-volt auxiliary battery will also help ensure that the high-voltage system is de-powered.
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- 2) Fuel shut off turns off fuel injection during deceleration whereas auto stop shuts off the engine when the vehicle stops moving.
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- 3) Auto stop only occurs after the engine is warm and when there is no need for propulsion. Engine stop can occur :
 - a. at vehicle speed below 19 mph
 - b. when the transmission is in any gear except first gear during deceleration
 - c. when engine speed is less than 1,000 RPMPage Ref: 216
- 4) The Honda Insight engine uses indexed spark plugs in a three-cylinder engine. The Civic hybrid and Accord use a different VTEC system than other Honda vehicles that shuts off cylinders during deceleration to increase regenerative braking.
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- 5) The Honda Accord uses active noise cancellation (ANC) to reduce the effects of operating on three of the six cylinders.
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- 6) Always follow the factory recommended service procedures and carefully read, understand, and follow all warning labels.
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