

Name _____

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

1) How does a navigation system determine the location of the vehicle?

2) How does a stepper motor analog dash gauge work?

3) Parking-assist systems use what type of sensor?

4) Night vision is used to detect what type of objects?

5) What do the colors of the dash symbols mean?

Answer Key

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- 1) A navigation system uses satellites in orbit around the earth to provide signals for navigation devices.
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- 2) The needle of the analog display is moved using a stepper motor, which is controlled by the electronics in the instrument panel.
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- 3) The ultrasonic proximity detectors are used to measure the distances to nearby objects. Electromagnetic parking sensors (EPS) detect when a vehicle is moving slowly and towards an object.
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- 4) The camera creates pictures based on the heat energy emitted by objects, rather than from light reflected on an object, as in a normal optical camera.
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- 5) Green or white symbols are used to notify the driver that certain functions are working, such as the headlights are on, or the turn signals have been activated. Amber-colored symbols mean that a fault or an issue has occurred that may require attention soon. Red symbols mean that a serious fault has been detected and that immediate attention is required.
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