Automotive Technology 6th Edition
Chapter 111

Name_____

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

1) How is a multimeter used to check for proper wheel speed sensor operation?

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2) What are symptoms of a vehicle having been under water?

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3) Why should the operation of the red and amber brake warning lamps be included in the diagnostic procedure?

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4) What are the steps of the diagnostic procedure?

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5) Where are ABS-related diagnostic trouble codes (DTCs) found using the scan tool?

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1) A DMM can be used to check wheel speed sensors for resistance (ohms) and AC voltage output.
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2) There are often strange electrical problems that can occur, including false DTCs or intermittent operation of electrical sensors, ABS, accessories, or gauges. Sometimes the root of these problems is due to rust and corrosion after a vehicle is involved in a flood.
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3) A red brake warning lamp (RBWL)failure in the base brakes, such as:
- Low brake fluid level
- Low pressure in half of the hydraulic system
- The parking brake is applied
- May light due to an ABS failure, such as low brake pressure on an integral system
- The amber ABS warning lamp usually comes on after a vehicle start during the initialization or start-up self-test sequence. If the amber warning lamp stays on after the vehicle is started, this means a fault in the ABS system has been detected.

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4) STEP 1 Verify the customer concern.
STEP 2 Perform a visual inspection.
STEP 3 Check for stored diagnostic trouble codes (DTCs).
STEP 4 Check for technical service bulletins (TSBs).
STEP 5 Determine the root cause. Using all of the resources and tests as specified in service information, determine the root cause of the problem.
STEP 6 Complete the repair.
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5) ABS-related codes are often “C” codes, meaning that they are chassis codes, which start with a “C.”
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