

Manual Drivetrains and Axles 9th Edition

Chapter 16

Multiple Choice Quiz A

Name: \_\_\_\_\_ Date: \_\_\_\_\_

1. What is the first step in diagnosing faults in four-wheel-drive vehicles and transfer cases?
  - A. Check for any stored diagnostic trouble codes (DTCs)
  - B. Verify the customer concern
  - C. Perform a visual inspection
  - D. Check scan tool data for sensor values
  
2. Which type of lubricant is typically used in transfer cases?
  - A. ATF
  - B. Gear oil such as SAE 80W-90
  - C. Special transfer case fluid
  - D. Engine oil
  
3. What does the C0550 diagnostic trouble code indicate?
  - A. Rear propeller shaft speed sensor circuit issue
  - B. Transfer case lock circuit shorted to ground
  - C. Motor A/B circuit open circuit
  - D. Failed shift control module test
  
4. What should be checked after retrieving diagnostic trouble codes in four-wheel-drive vehicles?
  - A. Vehicle's battery voltage
  - B. Oil levels in the engine
  - C. Tire pressure
  - D. Technical service bulletins (TSBs)
  
5. What type of diagnostic trouble code is usually not associated with a transfer case problem?
  - A. P codes
  - B. U codes
  - C. B codes
  - D. C codes
  
6. When diagnosing a four-wheel-drive fault, what is used to check for voltage at a switch for each position?
  - A. A test light
  - B. A digital multimeter
  - C. An oscilloscope
  - D. A frequency meter
  
7. What is indicated by a C0308 diagnostic trouble code?
  - A. Motor A/B circuit, short to ground
  - B. Front axle control circuit, shorted actuator
  - C. Module ground circuit issue
  - D. Encoder feed circuit fault

8. What is the significance of checking technical service bulletins (TSBs) in four-wheel-drive diagnosis?
- A. To find vehicle recall information
  - B. To get manufacturer's technical updates
  - C. To address faults for the set DTCs
  - D. To get the latest software updates
9. What should be done if a diagnostic trouble code for a fault in the mode switch is set and no fault is found?
- A. Reset the vehicle's ECU
  - B. Ask the driver if rapid switching occurred
  - C. Replace the switch immediately
  - D. Ignore the code as a false positive
10. What is a typical procedure for checking electrical switches and actuators in four-wheel-drive systems?
- A. Using a torque wrench
  - B. Using a scan tool
  - C. Visual inspection only
  - D. Applying external heat

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Answer Key

1. B

2. A

3. D

4. D

5. A

6. B

7. A

8. C

9. B

10. B