

Automatic Transmissions and Transaxles 8th Edition

Chapter 14

Multiple Choice Quiz A

Name: _____ Date: _____

1. What is the primary role of the Clutch Cooling Flow Solenoid (CCFS) in dual clutch transmissions?
 - A. Controlling gear shifts
 - B. Cooling the clutches
 - C. Managing transmission fluid pressure
 - D. Regulating engine temperature

2. The Steering Wheel Position (SWP) sensor information is used by the TCM to:
 - A. Determine the vehicle's speed
 - B. Adjust the air conditioning settings
 - C. Prevent upshifting when cornering
 - D. Control the audio system

3. What does a Line Pressure Solenoid (LPS) in a dual clutch transmission control?
 - A. The clutch engagement speed
 - B. System pressure in the transmission
 - C. The temperature of the transmission oil
 - D. The selection of gear ratios

4. Dual clutch transmissions use the transmission fluid temperature sensor to:
 - A. Measure the external environmental temperature
 - B. Determine the correct gear to engage
 - C. Monitor the temperature of the transmission fluid
 - D. Control the vehicle's interior temperature

5. How do dual clutch transmissions typically improve fuel economy?
 - A. By constantly slipping the clutches
 - B. By using a high-capacity torque converter
 - C. By enabling faster acceleration
 - D. By engaging neutral when the vehicle is stopped

6. What is the function of shift solenoids in a dual clutch transmission?
 - A. To cool the transmission fluid
 - B. To move the gearshift forks
 - C. To monitor the engine's RPM
 - D. To control the audio system

7. The Transmission Range Sensor (TRS) in a dual clutch transmission is responsible for:
 - A. Controlling the temperature of the transmission fluid
 - B. Providing the actual P R N D gear selection
 - C. Monitoring the pressure of the transmission fluid
 - D. Detecting the vehicle's speed

8. What type of fluid is typically used in dual clutch automatic transmissions?

- A. A special synthetic fluid, often green in color
- B. Conventional automatic transmission fluid
- C. Engine oil
- D. Brake fluid

9. The Clutch Shift Multiplex Solenoid (CSMS2) in a dual clutch transmission controls:

- A. Gear selection for gearshift fork 2 and 4
- B. The hydraulic pressure for even clutch or shifting
- C. The flow of cooling fluid to the clutches
- D. The engagement of the reverse gear

10. What does a P0753 diagnostic trouble code (DTC) indicate in a dual clutch transmission?

- A. A fault with the line pressure solenoid system
- B. An issue with the input shaft speed sensor system
- C. A problem with the shift select solenoid 1 system
- D. An error in the transmission fluid temperature sensor

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Answer Key

1. B

2. C

3. B

4. C

5. D

6. B

7. A

8. B

9. A

10. C