

Automotive Technology 7th Edition
Chapter 125
Multiple Choice Quiz B

Name: _____ Date: _____

1. What is the recommended action when backlash is incorrect due to too much clearance between the pinion and ring gears, but pinion depth is correct?
 - A. Decrease the thickness of both shims
 - B. Increase the thickness of the left shim and decrease the thickness of the right shim
 - C. Increase the thickness of both shims
 - D. No correction needed

2. What should be observed to check the tooth contact pattern after applying gear marking compound on the ring gear teeth?
 - A. The color change on the teeth
 - B. The wear on the teeth
 - C. The tooth contact pattern
 - D. The thickness of the teeth

3. Which of the following is a correct method for achieving proper drive pinion gear bearing preload?
 - A. Tightening the pinion nut to the manufacturer's specification
 - B. Using a torque wrench to measure turning resistance
 - C. Installing a shim 0.004 thicker on both sides
 - D. Ensuring the backlash is within specification

4. What is the cause of a grinding noise after a differential fluid service procedure if the drive axle housing cover was installed incorrectly?
 - A. Incorrect fluid type
 - B. Loose differential case
 - C. The ring gear rubbing against the cover
 - D. Worn out bearings

5. Which of the following is used to determine when the side gear locks up in a limited slip differential?
 - A. Adjustment shims
 - B. The preload spring alone
 - C. The thickness of the clutch packs
 - D. Both A and B

6. What is the purpose of a drive axle?
 - A. To provide power to the front wheels
 - B. To provide power to the rear wheels
 - C. To connect the transmission to the differential
 - D. To support the vehicle's weight

7. In a rear-wheel-drive vehicle, where is the ring gear attached?
 - A. Drive shaft
 - B. Pinion gear
 - C. Differential case
 - D. Spider gears

8. What does a limited-slip differential have on the side gears that a standard (open) differential does not?

- A. Sliders
- B. Clutch packs
- C. Slip teeth
- D. Slipper rings

9. What is the purpose of a collapsible spacer in some differentials?

- A. To provide a lubrication path to the drive pinion bearing
- B. To provide the proper preload for the side bearings
- C. To provide the proper preload for the drive pinion bearings
- D. To provide the proper amount of slippage in a limited-slip differential

10. The shim used on a drive pinion gear is used to properly position the gear to mesh with what?

- A. Ring gear
- B. Side gear
- C. Differential pinion gears
- D. Both B and C

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Answer Key

1. B

2. C

3. B

4. C

5. D

6. B

7. C

8. B

9. C

10. A