

# Maintenance and Light Repair Workbook Chapter 66

Name: \_\_\_\_\_ Class \_\_\_\_\_ Date: \_\_\_\_\_  
Instructor: \_\_\_\_\_ Textbook Pages 971-993

Answer the questions and identify the page number that the answer was found in the textbook

1. The two purposes of a drive axle assembly are: Page \_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_ gear sets are gear sets with final drive ratios expressible as a whole number. Page \_\_\_\_

3. A \_\_\_\_\_ differential distributes torque to both wheels equally or unequally, allowing the wheels to turn at the same or at different speeds. Page \_\_\_\_

4. The \_\_\_\_\_ differential is a torque sensing, locking design that uses a set of worm side gears in mesh with individual worm wheel pinions that are supported by the differential case. Page \_\_\_\_



5. The drive pinion gear of the differential is driven by a flange often called a \_\_\_\_\_ flange. Page \_\_\_\_

6. You can vary the pinion depth adjustment by changing the thickness of a \_\_\_\_\_ Page 987

7. Because all differentials use \_\_\_\_\_, a special lubricant is necessary because the gears both roll and slide between their meshed teeth. Page \_\_\_\_\_



8. Excessive \_\_\_\_\_ between the drive pinion and the ring gear can cause driveline clash noise during a gear selector change. Page \_\_\_\_\_

9. Limited-slip differentials (often abbreviated LSD) usually use an additive that modifies the friction characteristics of the rear axle lubricant to prevent \_\_\_\_\_ while cornering. Page \_\_\_\_\_

10. Ring gear runout should be less than 0.002 inch (0.05 mm) as measured by a \_\_\_\_\_. Page \_\_\_\_\_