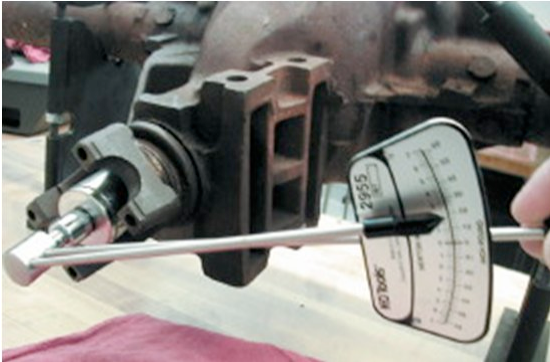


Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) What is being measured in this photograph?

1) _____



- A) Pinion nut torque
- B) Pinion bearing preload
- C) Axle bearing preload
- D) None of these

2) Inside the drive axle of a rear-wheel-drive vehicle, the ring gear is attached to the _____.

2) _____

- A) drive shaft
- B) pinion gear
- C) differential case
- D) spider gears

3) The backlash is less than specifications (too low). This will cause the ring gear tooth pattern to be too close to the _____.

3) _____

- A) heel
- B) flank
- C) toe
- D) face

4) Where are straight roller bearings used in a rear drive axle?

4) _____

- A) Pinion bearings
- B) Spider gear bearings
- C) Ring gear bearings
- D) Axle bearings

5) The shim used on a drive pinion gear is used to properly position the gear so that it can correctly mesh with the _____.

5) _____

- A) ring gear
- B) side gear
- C) differential pinion gears
- D) both B and C

- 6) Ring gear runout should be less than _____ as measured by a dial indicator. 6) _____
A) 0.020 inch
B) 0.002 inch
C) 1/10th of an inch
D) 1/20th of an inch
- 7) Technician A says that the convex side of the ring gear is the drive side on most rear axle assemblies. Technician B says that the convex side of the ring gear is the drive side on differentials used in the front of many four-wheel-drive vehicles. Which technician is correct? 7) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician
- 8) What supports the pinion gear in the differential housing? 8) _____
A) Tapered roller bearings
B) Bronze bushings
C) Ball bearings
D) Rubber bushings
- 9) Which of the following is TRUE of drive pinion mounting? 9) _____
A) The overhung pinion can be supported by opposed straight roller bearings.
B) All support for the pinion shaft comes from two preloaded bearings on a straddle mounted drive pinion.
C) A compressible spacer separating the two inner races supports an overhung pinion.
D) Pinion depth does not require adjustment.
- 10) A growling sound is heard from the rear of a rear-wheel-drive vehicle during cornering only. Technician A says that defective rear axle bearings may be the cause. Technician B says that defective drive pinion bearings may be the cause. Which technician is correct? 10) _____
A) Technician A only
B) Technician B only
C) Both technicians
D) Neither technician