

Fig. 10—Measuring Drive Gear Runout (Typical)

(11) Measure drive gear runout by turning drive gear several complete revolutions and reading dial indicator. Mark drive gear and differential case at point of maximum runout. The marking of differential case will be very useful later in checking differential case runout. Total indicator reading should be no more than .005 inch. If runout exceeds .005 inch the differential case may be damaged. A test for case runout will be described later.

(12) Mark axle housing and differential bearing caps for proper relocation during reassembly (Fig. 11).

(13) Remove adjuster lock from each bearing cap. Loosen but do not remove bearing caps.

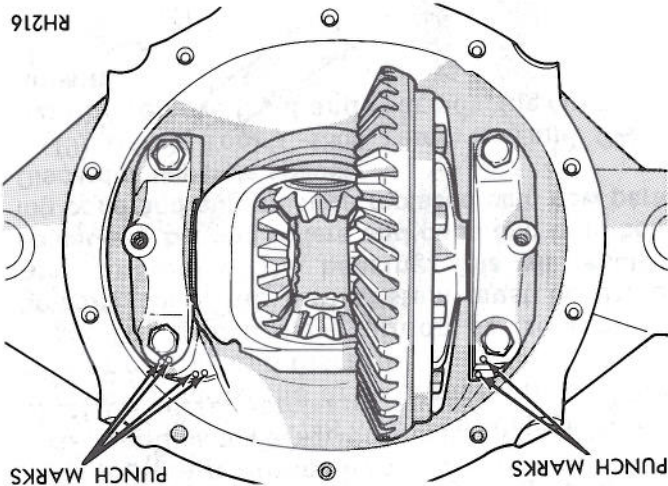


Fig. 11—Marking Bearing Caps and Housing for Proper Identification (Typical)

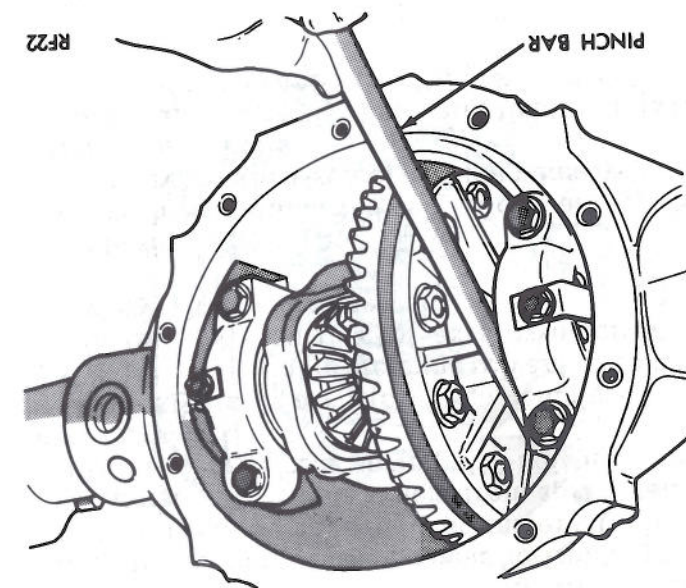


Fig. 9—Checking Differential Side Play (Typical)

(5) Loosen and remove housing cover screws, and remove cover to drain lubricant.

(6) Using a suitable cleaning solvent wash and clean inside the axle housing and differential case and drive assembly.

(7) Turn differential case to make differential pinion lock screw accessible and remove lock screw and pinion shaft. Push both axle shafts toward center of vehicle and remove "C" locks from recessed groove of axle shaft. Reinstall pinion shaft and lock screw.

(8) Remove axle shafts from housing being careful not to damage the straight roller type axle shaft bearing which will remain in the housing. Side play and runout checks taken during disassembly will be very useful in reassembly.

(9) Measure for differential side play. Position a screwdriver or pinch bar between left side of axle housing and differential case flange, then using a prying motion determine if side play is present. There should be no side play. (Fig. 9).

Side play resulting from bearing cones becoming loose on differential case hubs requires replacement of case. Otherwise, use threaded adjuster to remove side play for check of drive gear run out.

(10) In preparing to measure drive gear runout on differential case, (provided no side play was found) mount a dial indicator Tool C-3339 on pilot stud C-3288-B, and load the indicator stem slightly when plunger is at right angles to back face of drive gear (Fig. 10).