

REAR AXLE

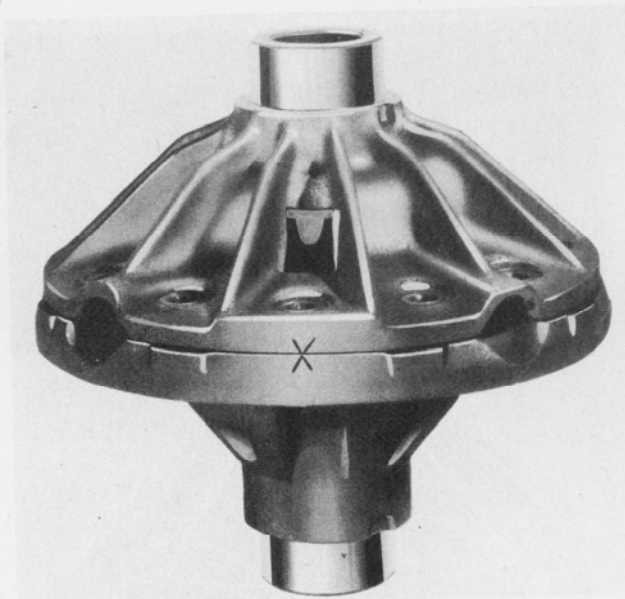


Fig. 7 Differential Case Marks.

When replacing ring gear (22), it is good practice to use two guide pins made from differential and ring gear screw, Part No. 3652253. Their ends should be slightly tapered and screw driver slots cut so they may be easily removed, Fig. 6.

1. Lubricate the differential side gears (16) and pinions (18) and install them in the

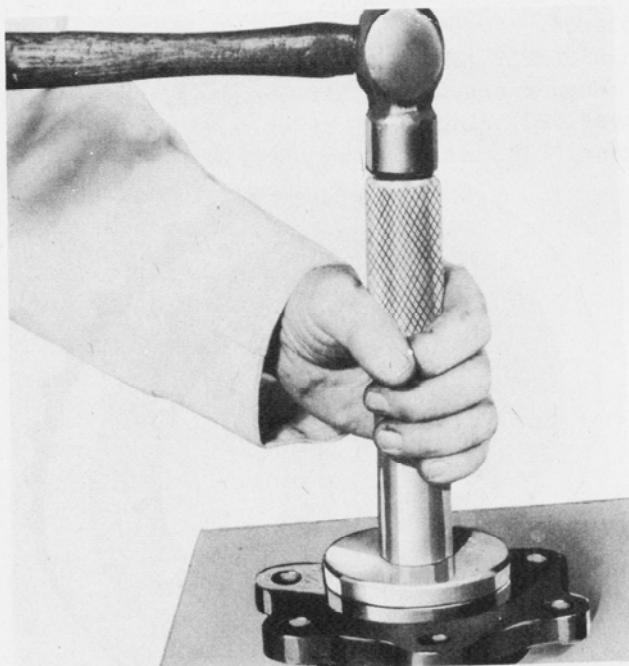


Fig. 8 Installing Oil Seal.

- left half of the differential case (20) with a thrust washer (15) between each gear and the differential case.
2. Assemble the right side of the case (14) to the left side (20) being sure to line up the marks on the case halves, Fig. 7.
3. Install the guide pins. Slip ring gear (22) over pilot diameter of right-hand half of differential case (20).
4. Install ten differential to ring gear cap screws and lockwashers, tightening them evenly one turn at a time until the ring gear face is flush with the case flange. Remove the guide pins and install the two remaining bolts and lockwashers. Then pull up all twelve bolts tight.
5. Assemble the differential side bearings (13) to the case, using the special driver, J-1488.

PINION REASSEMBLY AND INSPECTION

INSPECTION

Wash all parts in clean gasoline. Inspect pinion for worn or chipped teeth. Inspect splines on pinion shaft for wear or scoring. Oil bearings and turn them slowly by hand to check for roughness. Check fit of bearings in carrier. These should be a close push fit by hand. Inspect oil seal in pinion bearing retainer and if replacement is necessary, install felt packing toward bottom of recess and then oil seal with the open end of leather out, Fig. 8. The oil seal should be pressed down against felt packing.

PINION REASSEMBLY (SEE FIG. 1)

1. Press double row bearing (7) on pinion shaft (8) with extended portion of inner race toward gear teeth. This part of inner race seats against heel of gear.
2. Press Hyatt roller bearing (9) on end of shaft with chamfered side of inner race toward pinion. Install lock ring (25) using lock ring installer, J-1364, Fig. 9.
3. Slide pinion oil seal and bearing retainer (4) over universal joint yoke (3).
4. Install pinion bearing retainer (4) gasket and then slide universal joint yoke (3) over splined pinion shaft (8) until it contacts inner race of bearing (7).
5. Install flat washer (2) to end of pinion shaft and tighten nut (1) with torque