

(25) Attach a dial indicator Tool C-3339 to housing so pointer of indicator squarely contacts drive gear surface of differential case flange between outer edge of flange and drive gear bolt holes.

(26) Rotate differential case several complete revolutions while noting total indicator reading. This reading must not exceed .003 inch runout. If runout is in excess of .003 inch, differential case must be replaced. In a case where the runout does not exceed .003 inch it is often possible to reduce the runout by positioning the drive gear 180 degrees from point of maximum runout when reassembling drive gear on differential case (Fig. 16).

(27) Loosen and remove pedestal cap bolts and remove differential case assembly from carrier and tube assembly.

(28) Remove lock screw and pinion shaft. (29) Rotate differential side gears until differential pinions appear at differential case window opening and remove.

(30) Remove differential side gears and thrust washers. Remove differential case from vise.

(31) Remove differential bearing cone (Fig. 17). On 7-1/4 inch axles use Tool C-293-PA and C-293-44 adapters with SP-3289 plug. On 8-1/4 inch axles use Tool C-293-PA and C-293-48 adapters with SP-3289 plug.

#### Cleaning and Inspection

(1) Wash and clean all parts in a suitable cleaning solvent, dry with compressed air. To clean axle housing tubes, insert a stiff wire into tube, attach a clean cloth to wire at center section and withdraw from center outward. (2) All machined contact surfaces in the axle housing and differential bearing caps should be smooth and free of any raised edges. Front and

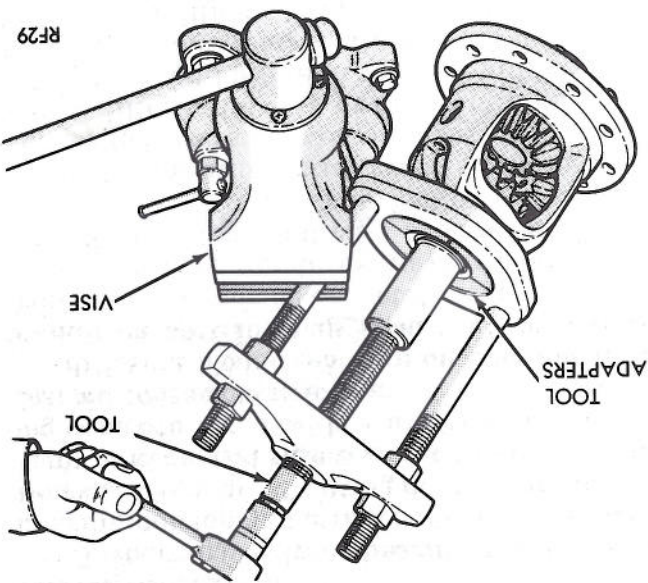


Fig. 17—Removing Differential Bearing Cone

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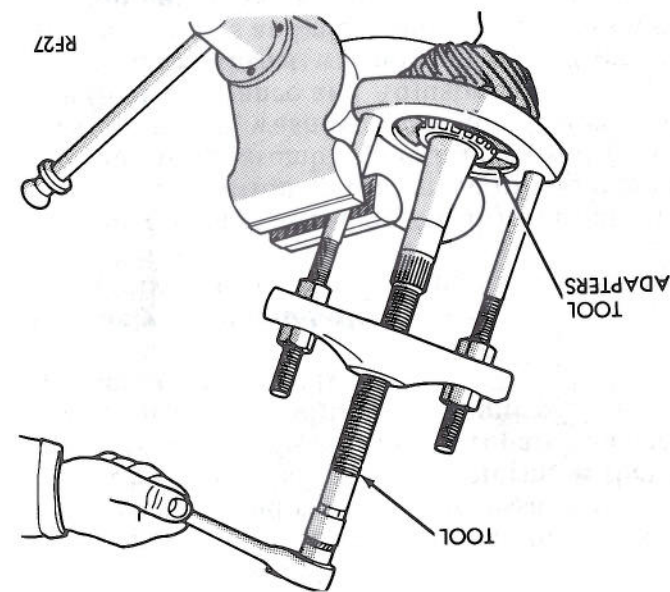


Fig. 15—Removing Drive Pinion Rear Bearing Cone (Typical)

(Fig. 15). Remove shim from drive pinion stem and record thickness.

(21) Mount differential case and ring gear assembly in a vise equipped with soft jaws (brass). Do not remove drive gear from case unless either the case or the gear set is to be replaced or if runout in step 11 exceeds .005 inch.

(22) Remove and discard drive gear bolts. Bolts are left hand thread. With non-metallic hammer or brass drift, tap drive gear loose from differential case pilot and remove.

(23) If drive gear runout exceeded .005 inch in step 11, differential case flange runout should be remeasured. Install differential case and respective bearing cups and adjusters in housing.

(24) Install bearing caps and bearing cap bolts. Tighten bearing cap bolts down lightly and using Tool C-4164 screw in both hex adjusters until all side play in bearings has been eliminated.

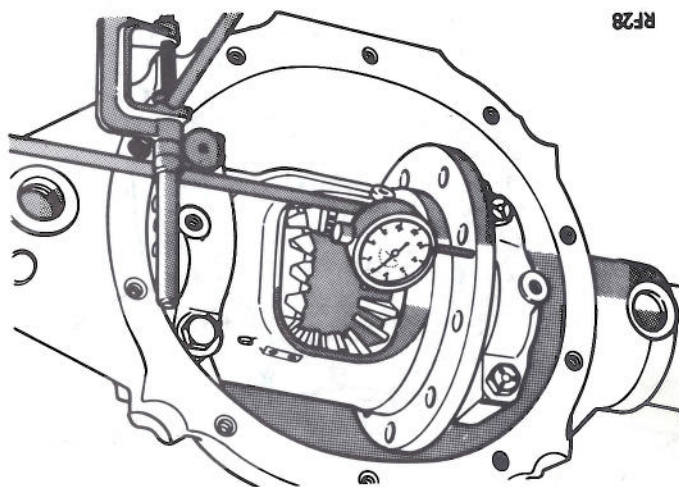


Fig. 16—Checking Drive Gear Mounting Flange Face Runout (Typical)

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