

Paragraph 10

Install king pin mounting cap screws finger tight, complete installation of final drive assembly, then adjust king pin bearing preload as follows:

Remove grease fitting or plug and mounting cap screws from upper king pin. Install special plate ACTP-3080 (1—Fig. 8) on upper king pin, install king pin cap screws (2) and tighten to 47 ft.-lbs. (64 N·m) torque. Use a torque wrench (3) to measure torque required to turn planetary unit. Specified torque is 58-72 ft.-lbs. (79-97 N·m) torque. To increase torque reading, decrease thickness of shims (2—Fig. 6) on lower king pin. To decrease torque reading increase shim thickness. Shims should only be installed on lower king pin. Remove special plate from upper king pin, reinstall mounting cap screws and tighten to 47 ft.-lbs. (64 N·m) torque.

Refill final drive housing and axle housing to correct levels with Allis-Chalmers Power Fluid 821 or equivalent.



Fig. 8—Install special plate ACTP-3080 (1) on upper king pin, then use a torque wrench (3) to measure torque required to turn planetary unit. Install shims on lower king pin only to adjust king pin bearing preload.

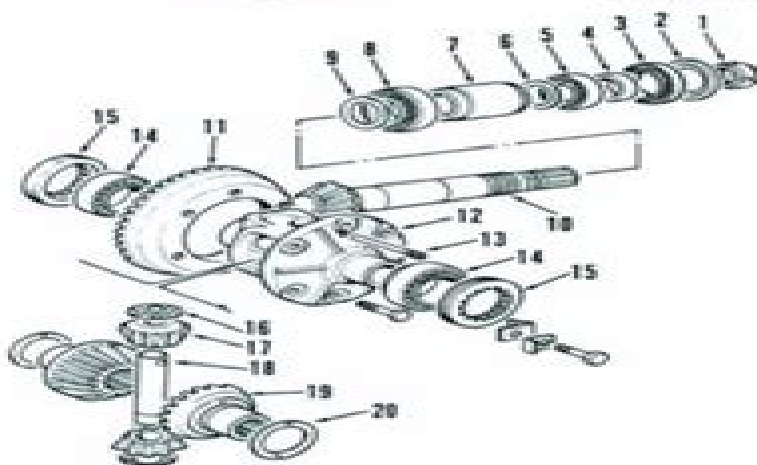


Fig. 9—Exploded view of front-wheel drive differential and bevel gear assemblies.

1. Nut
2. Dust seal
3. Oil seal
4. Spacer
5. Bearing
6. Shim
7. Pinion
8. Ring gear
9. Differential case
10. Retaining screw
11. Carrier bearings
12. Adjusting rings
13. Thrust washer
14. Pinion gear
15. Shaft
16. Side gear
17. Thrust washer

DIFFERENTIAL AND BEVEL GEAR HOUSING

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10. R&R OVERHAUL. Axle assembly must be removed from tractor as outlined in paragraph 7 to remove differential assembly. Planetary assemblies can be removed as complete units if disassembly is not necessary. Remove drain plugs and drain oil from final drive housings and axle housing. Support planetary assembly with an overhead hoist, remove king pins and separate complete planetary unit from axle housing. Loosen axle bearing retainer screws (7—Fig. 4), then pull axle shaft assemblies from axle housing. Remove cap screws retaining differential carrier housing (11), then remove carrier with differential assembly from axle housing.

Block teeth of pinion gear and ring gear to prevent pinion shaft movement, then loosen pinion shaft locknut (1—Fig. 9), mark differential carrier bearing caps to carrier housing so they can be reinstalled in their original positions. Remove bearing caps and adjusting rings (15). Lift differential and ring gear assembly from carrier housing.

Remove pinion shaft locknut, then press pinion shaft (10) assembly out of carrier housing. Drive seals and bearing cups from housing as necessary.

Remove ring gear mounting cap screws and separate ring gear (11) from differential case (12). Remove screw (13) retaining pinion gear shaft (18). Push shaft out of case and remove pinion gears (17), side gears (19) and thrust washers (16 and 20).

Inspect gears, bearings and thrust washers for wear or damage and renew

if necessary. Running clearance of shaft in pinion gears should be 0.003-0.005 inch (0.08-0.12 mm). Thickness of pinion gear thrust washers is 0.058-0.060 inch (1.47-1.53 mm) when new. Side gear thrust washers are available in two thicknesses of 0.059 inch (1.5 mm) or 0.063 inch (1.6 mm) and are used to adjust side gear end clearance. Note that side gears and pinion gears and the bevel ring gear and pinion gear are available as complete gear sets only.

To check and adjust differential side gear (19) clearance, assemble side gears without thrust washers and pinion gears with thrust washers into differential case. Install pinion gear shaft and retaining screw. Use a depth micrometer (Fig. 10) to measure distance from edge of case to the end of one of the side gears with gear pushed inward against pinion gears and with gear pulled outward against case. Subtract measurement with gear held outward from measurement with gear held inward to determine side gear clearance, then subtract 0.010 inch (0.25 mm) from the clearance figure. The result is thickness of thrust washer (20—Fig. 9) that should be installed to provide desired end clearance of 0.010 inch (0.25 mm). Repeat the procedure for side gear on opposite side as different thickness washer may be required to provide desired end clearance for each gear.

Disassemble differential gears, then reassemble using correct thickness thrust washers. Feed head of pinion shaft retaining screw (13) to prevent loosening. Install ring gear (11) onto case (12) and tighten mounting cap screws evenly to 95 ft.-lbs. (129 N·m) torque.

Reinstall and adjust bevel pinion shaft (10) and differential assembly as outlined in paragraphs 11 through 14.

Install differential support housing into axle housing and tighten mounting cap screws to 83 ft.-lbs. (113 N·m) torque. Reinstall axle shafts and final drive units. Reinstall axle assembly under tractor. Refill axle housing and final drive housings to correct levels with Allis-Chalmers Power Fluid 821 or equivalent.



Fig. 10—Use a depth micrometer to measure distance from edge of case to end of side gear to determine thickness of thrust washer required to provide proper end clearance. Refer to text.

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