

## DANA/SPICER TRAC-LOK

International Harvester  
Jeep

**NOTE** — Some models may use other units, refer to Contents page.

### DESCRIPTION

The Trac-Lok differential uses clutch packs which are preloaded by Bellevue plates to provide limited slip action. Multiple disc clutches permit differential action when required for turning corners and transmit equal torque to both wheels when driving straight ahead. When one wheel tries to spin because of reduced traction, the clutch packs automatically provide more torque to the wheel with the greater traction. Trac-Lok is used on Dana/Spicer axles with a one-piece differential case and two differential pinion gears.

### AXLE RATIO & IDENTIFICATION

See *Dana/Spicer Semi-Floating or Full Floating Axles* in this Section.

### LUBRICATION

**International Harvester** — Lubricant meeting Mil-L-2105-B specifications.

**Jeep** — Jeep Differential Oil Part No. 8991018.

### REMOVAL & INSTALLATION

The same procedure is used to remove and install Trac-Lok differential and conventional differential. See *Dana/Spicer Semi-Floating or Full Floating Axles* in this Section.

### OVERHAUL

#### DISASSEMBLY

- 1) Place an axle shaft into vise so that 2 ¾" of splined end extends above jaws. Tighten vise firmly on shaft. Axle shaft will serve as a holding device during removal of ring gear and disassembly of internal components.
- 2) Remove ring gear attaching bolts and, using a brass drift and hammer, tap ring gear from case. **CAUTION** — Place shop towels over vise jaws to protect gear teeth from becoming nicked after it is free from case. Lift differential assembly from axle shaft and remove ring gear.
- 3) Reposition case on axle shaft. Using two screwdrivers, remove two snap rings from differential pinion shaft. **NOTE** — On some models, pinion shaft is retained by a single lock pin which should be driven from case, using long drift, at this time. Remove differential pinion shaft and spacer block from case.
- 4) Place suitable step plate in bottom side gear and position gear rotating tool in top side gear. Insert forcing screw down through top of case and thread into gear rotating tool. **NOTE** — Before using forcing screw, lubricate threads with a fine coat of oil. Also apply a small spot of grease to centering hole in step plate.

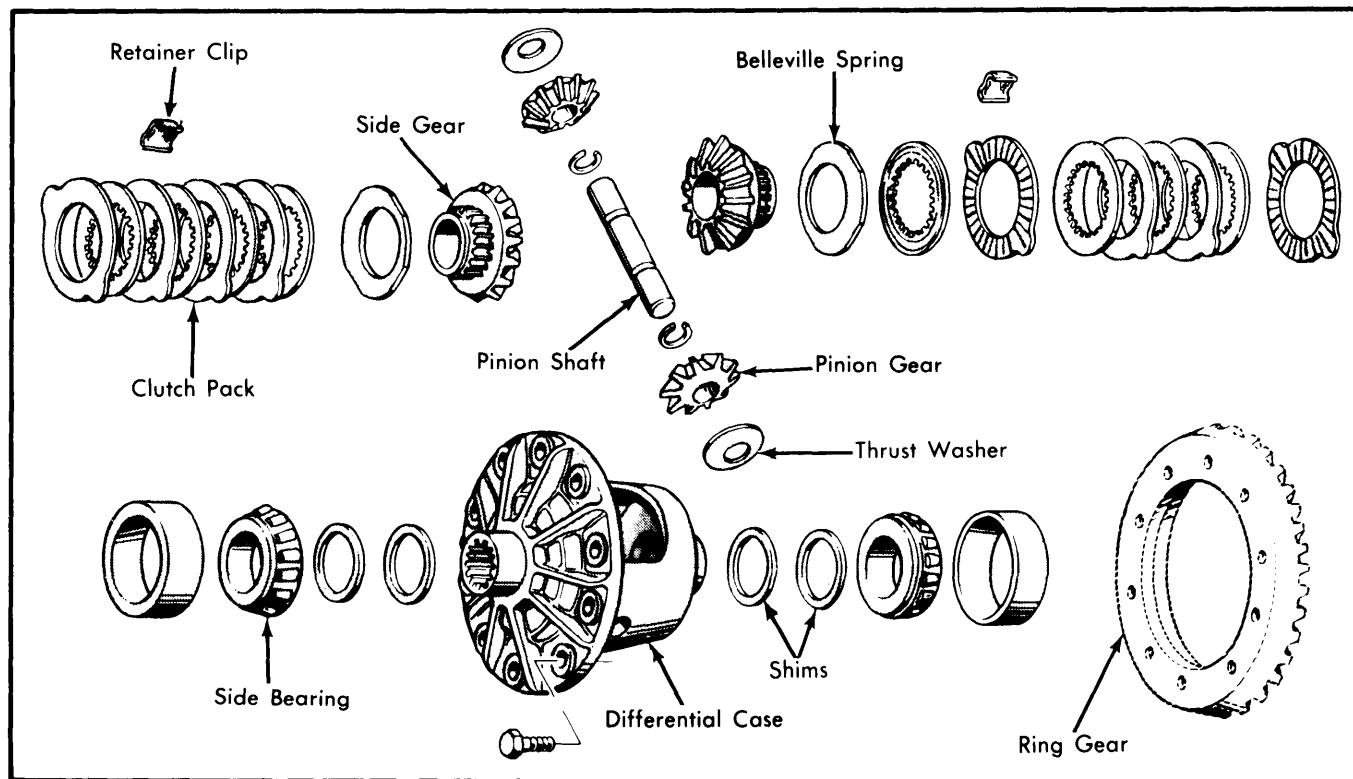


Fig. 1 Exploded View of Dana/Spicer Trac-Lok Differential Assembly

