CATERPILLAR®

Service Repair Manual

**Models**

# D7G TRACK-TYPE TRACTOR

Product: TRACK-TYPE TRACTOR
Model: D7G TRACK-TYPE TRACTOR 64V
Configuration: D7G TRACTOR / DIRECT DRIVE / 64V01107-UP (MACHINE) POWERED BY 3306 ENGINE

**Disassembly and Assembly**
**D7G TRACTOR POWER TRAIN**
**Media Number -SENR7119-02** **Publication Date -01/02/1983** **Date Updated -14/10/2004**

SENR71190025

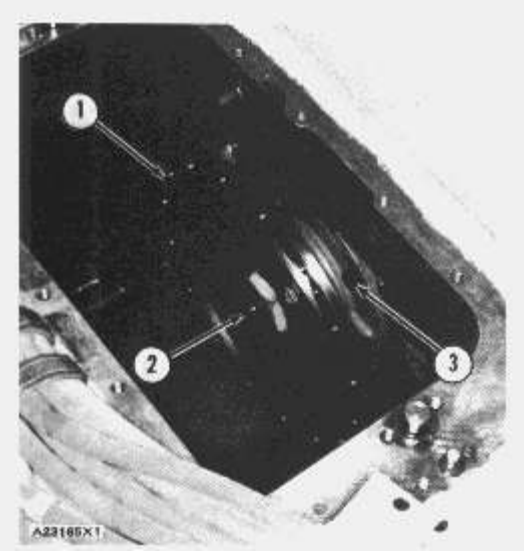
# Final Drive Pinions And Flanges

**SMCS -** 4057-11; 4057-12; 4057-15; 4057-16; 4091

## Remove Final Drive Pinions And Flanges

START BY:

**a)** remove steering clutches




**1.** Loosen nut (2) if the final drive pinion and flange (1) are to be disassembled.

**2.** Put the holes in the flange in alignment with bolts (3). Remove the bolts. The flange must be turned to remove some of the bolts.

**3.** Put the holes in the flange in alignment with the forcing screw holes in the bearing cage. Install two 5/8"-11 NC forcing screws. Tighten the screws evenly until the bearing cage is free of the bevel gear case.

**4.** Fasten a hoist to the final drive pinion and flange as a unit and remove it. Weight of the unit is 80 lb. (36 kg).

# Install Final Drive Pinions And Flanges

**1.** Remove the old gasket material from the surface of the bevel gear case and bearing cage. Put 7M7260 Liquid Gasket on the surfaces.

**2.** Fasten a hoist to the final drive pinion and flange (1). Put the unit in position in the bevel gear case. Make sure the teeth of the final drive pinion and idler pinion gear are engaged. Make sure the pinion bearing race engages in its bearing.

**3.** Put the holes in the bearing cage and bevel gear case in alignment. Make sure the dowel in the bearing cage is up and the oil passage is down. Install the bolts that hold the bearing cage to the bevel gear case. Tighten the bolts by hand to a torque of 100 ± 10 lb.ft. (135 ± 14 N·m).

**4.** Tighten the large nut to a torque of 700 ± 100 lb.ft. (950 ± 135 N·m) and bend the lock against the side of the nut.

END BY:

**a)** install steering clutches

# Disassemble Final Drive Pinions And Flanges

| Tools Needed | | A | B | C |
|---|---|---|---|---|
| 5P3100 | Pump Group (or electric) | 1 | | |
| 6V3100 | Hydraulic Puller | 1 | | |
| 8B7548 | Puller Assembly | 1 | | 1 |
| 7J7081 | Bolt, 3/4"-10 NC (9"long) | 2 | | |
| 8H684 | Ratchet Box Wrench | | | 1 |
| 8B7560 | Step Plate | | | 1 |
| 8B7551 | Bearing Puller Attachment | | | 1 |
| 1P520 | Driver Group | | 1 | |

START BY:

**a)** remove final drive pinions and flanges

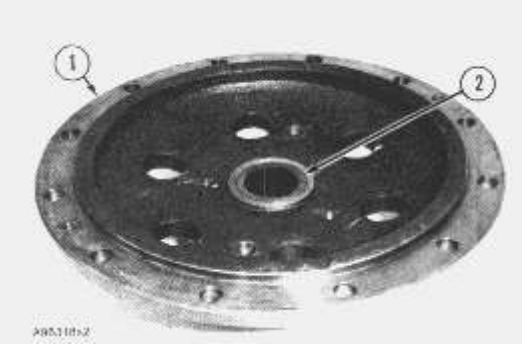
**1.** Remove the large nut from the pinion. Remove the bolt and lock from the flange.

**WARNING**

**Make sure the large nut is installed on the pinion shaft after the bolt and lock are removed. The flange is installed with a force of 35 to 40 ton (310 to 355 kN). The nut will keep the flange on the pinion shaft to prevent personal injury.**

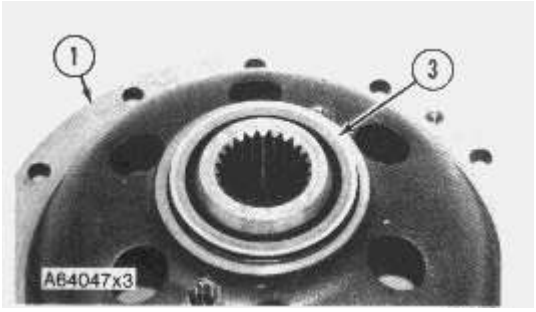
**2.** Install the large nut back on the pinion shaft until there is a distance of .125 in. (3.2 mm) between the nut and flange.


**3.** Install tooling (A) on the flange. Loosen flange (1) from the tapered splines. Remove tooling (A). Remove the large nut and flange (1) from the pinion shaft.



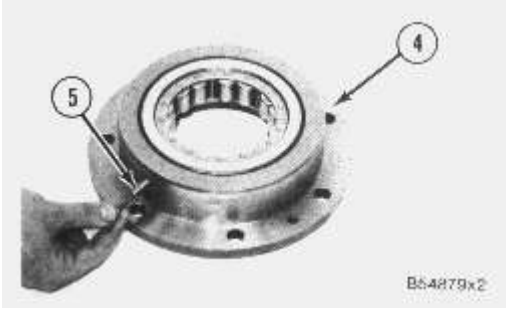

**4.** Remove gasket (2) from flange (1).

**NOTE:** Put identification on the Duo-Cone seals for correct installation.



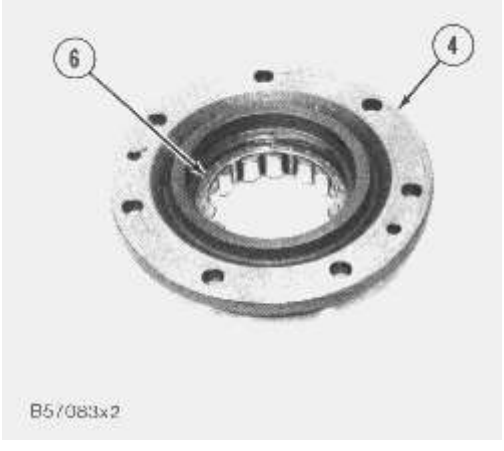

Typical Example

**5.** Remove Duo-Cone seal (3) from flange (1).

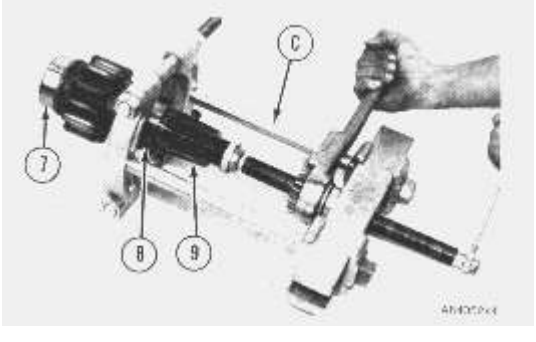



**6.** Remove bearing cage (4) from the pinion shaft. Remove the Duo-Cone seals from the bearing cage.

**7.** Install a 10-32 screw in dowel (5) that holds the race and roller assembly in the bearing cage. Remove dowel (5) from bearing cage (4) with the screw.




**8.** Remove race and roller assembly (6) from bearing cage (4) with tooling (B).



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