



# Service Repair Manual

## **Models**

# D7H TRACK-TYPE TRACTOR

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Product: TRACK-TYPE TRACTOR

Model: D7H TRACK-TYPE TRACTOR 3XG

Configuration: D7H & D7H LGP TRACTOR / POWERSHIFT / 3XG00001-UP (MACHINE) POWERED BY 3306 ENGINE

## Disassembly and Assembly D7H SERIES II TRACTOR POWER TRAIN

Media Number -SEN5317-02

Publication Date -01/12/2004

Date Updated -07/06/2005

SEN53170018

### Final Drives

SMCS - 4050-016; 4050-011; 4050-012; 4050-015

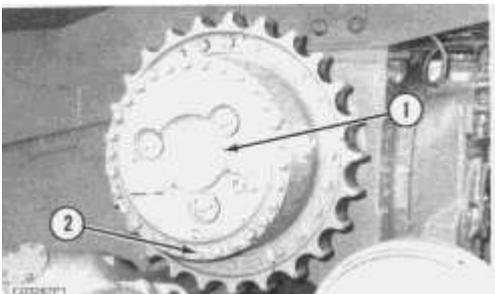
### Remove Final Drives

Tools Needed		A	B
8T3045	Adapter	1	
8T3207	Lifting Bracket		1
5P8622	Shackle		1
1D4615	Bolt (3/4"-10 x 5 1/2")		2
1B4331	Nut		2
5P8248	Washer		4

Start By:

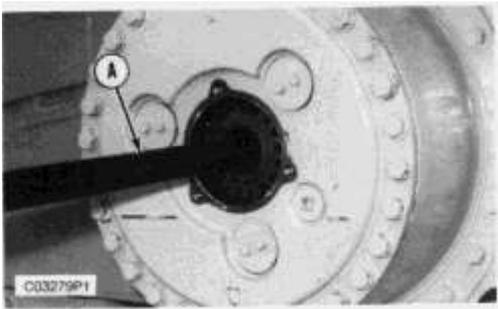
- a. separate track

**NOTE:** The final drive planet carriers can be removed in chassis. See topic Remove Final Drive Planet Carriers (In Chassis).



1. Turn the final drive until drain plug (2) is on the bottom as shown. Remove drain plug (2) and drain approximately **11.4 liter (3 U.S. gal.)** of oil from the final drive.

2. Remove cover (1) from the final drive. Remove the O-ring seal from the cover.



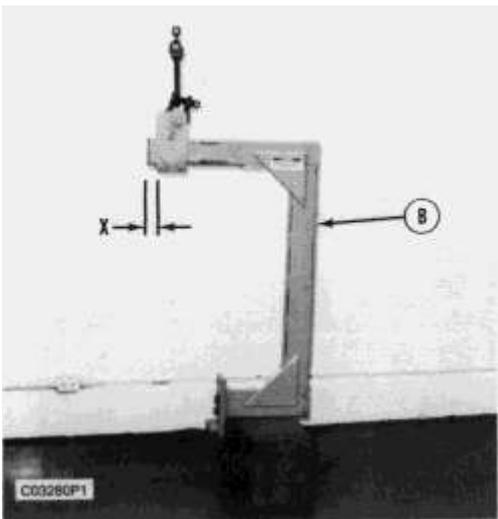
3. Remove the retainer from the sun gear.

4. Install tool (A), and remove the outer axle.

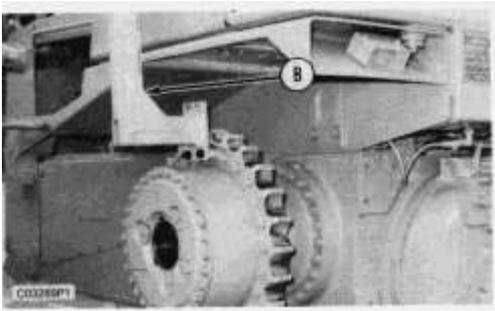
**NOTE:** Use caution whenever removing or installing the axle shaft. The hub seal can be cut by the axle shaft splines and allow leakage of fluid. Always remove the shaft in a straight line.

 **WARNING**

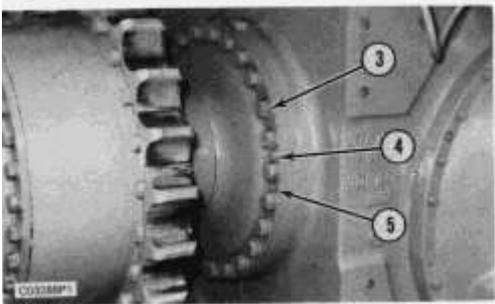
**Make sure that the short support of tooling (B) is on the bottom and the long support is on the top when distance (X) is made.**



5. Adjust the top bracket on tooling (B) so distance (X) is **38 mm (1.5 in)**. The lower mounting bracket must be installed with the spacers outward as shown.



6. Remove two bolts from the sprocket segments. Fasten a hoist, and install tooling (B) on the final drive.



**Do not remove two bolts (5) that hold the steering clutch and brake to the frame.**

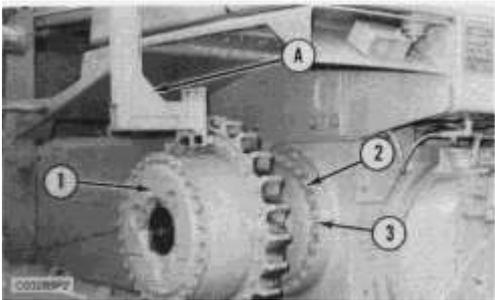


- 7. Remove bolts (3) that hold the final drive and steering clutch and brake to the frame.
- 8. The weight of the final drive is **625 kg (1375 lb)**. Remove two bolts (4) that hold the fuel drive and steering clutch and brake together.
- 9. Use tooling (B), and remove the final drive from the machine.
- 10. Remove the O-ring seal from either the face of the steering clutch or the final drive hub.

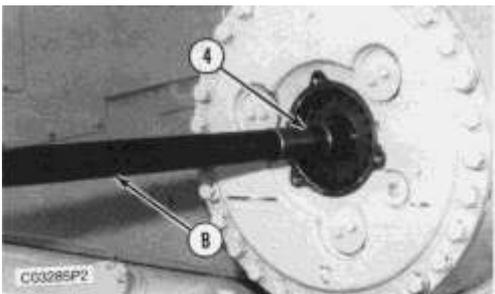
## **Install Final Drives**

Tools Needed		A	B
8T3207	Lifting Bracket	1	
5P8622	Shackle	1	
1D4615	Bolt (3/4"-10 × 5 1/2" long)	2	
1B4331	Nut	2	
5P8248	Washer	4	
8T3045	Adapter		1

1. Inspect the condition of O-ring seals, and replace if necessary.
2. Put the O-ring seal in position on the face of the steering clutch.



3. Fasten a hoist, and install tooling (A) on final drive (1). Make an adjustment to tooling (A) if necessary to put the final drive in a level position. Put final drive (1) in position on the machine.
4. Install two bolts (3) that hold the final drive to the steering clutch and brake.
5. Install bolts (2) that hold the final drive and steering clutch and brake to the frame. Tighten bolts (2) to a torque of  $650 \pm 50 \text{ N}\cdot\text{m}$  ( $480 \pm 37 \text{ lb ft}$ ). Remove tooling (A).
6. Put SAE 30 oil on the threads of the segment bolts. Install the bolts and nuts with the head of the bolts and washers against the final drive. Tighten the nuts to a torque of  $300 \pm 50 \text{ N}\cdot\text{m}$  ( $221 \pm 37 \text{ lb ft}$ ). Tighten the nuts 1/3 turn more. Final torque must be a minimum of  $570 \text{ N}\cdot\text{m}$  ( $420 \text{ lb ft}$ ).



7. Install tool (B) on the outer axle, and install outer axle (4) into the final drive. Make sure the thrust button that goes between the inner and outer axles is installed into the end of the outer axle.

**NOTE:** Use caution whenever removing or installing the axle shaft. The hub seal can be cut by the axle shaft splines and allow leakage of fluid. Always remove the shaft in a straight line.

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