



# Service Repair Manual

## **Models**

# D7H TRACK-TYPE TRACTOR

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Product: TRACK-TYPE TRACTOR

Model: D7H TRACK-TYPE TRACTOR 4FG

Configuration: D7H & D7H LGP TRACTORS / POWER SHIFT / DIFFERENTIAL STEERING / 4FG00001-03999 (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

SEN53170019

# Final Drives, Steering Clutches And Brakes

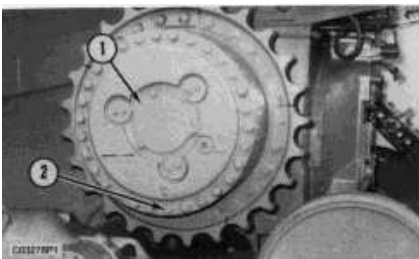
SMCS - 4050; 4100-011; 4100-012; 4100-029

## Remove Final Drive, Steering Clutch And Brake

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

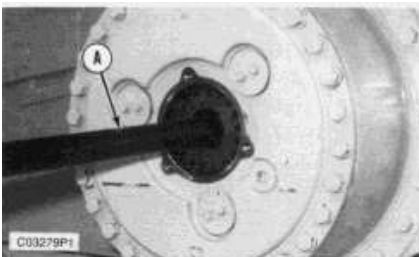
Start By:

a. separate track



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.

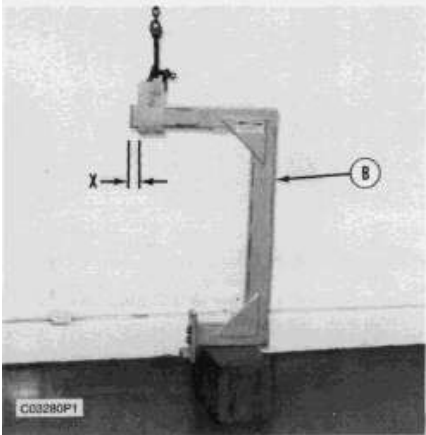
2. Remove the three bolts and cover (1) from the final drive. Remove the O-ring seal from the cover.



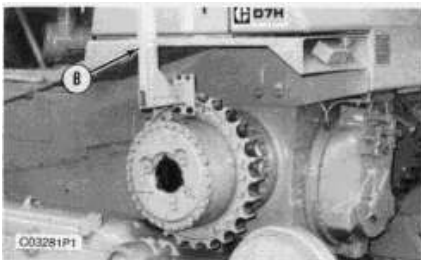
3. Remove the retainer from the end of the axle. Install tooling (A), and remove the outer axle.

**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.

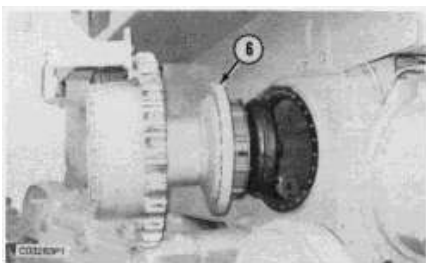
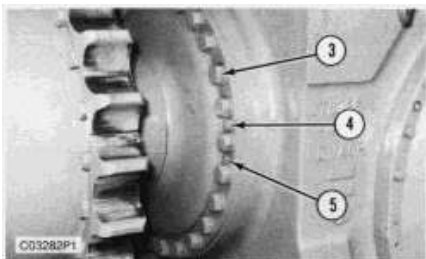
4. Use tooling (A), and remove the inner axle.



5. Adjust the lifting shackle on tooling (B) so distance (X) is **38 mm (1.5 in)**. The lower mounting bracket should be installed so the spacers are out as shown.



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



7. Remove bolts (3) that hold the final drive and steering clutch and brake to the frame.

**NOTE:** Do not remove bolts (4) that hold the final drive to the steering clutch and brake.

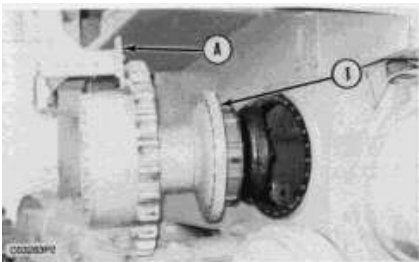
8. The weight of the final drive and steering clutch and brake assembly is **864 kg (1900 lb)**. Remove two bolts (5) that hold the steering clutch and brake to the frame.

9. Remove final drive and steering clutch and brake (6) as a unit.

## Install Final Drive, Steering Clutch and Brake

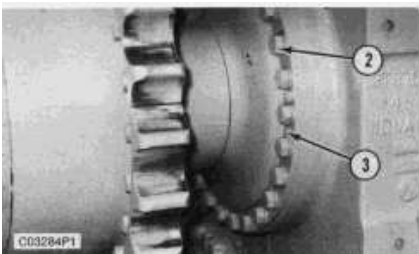
Tools Needed		A	B
8T3207	Lifting Bracket	1	
5P8622	Shackle	1	
1D4615	Bolt (3/4"-10 x 5 1/2" long)	2	
1B4331	Nut	2	
5P8248	Washer	4	
BT3045	Adapter		1

1. Inspect all O-rings for damage, and replace if necessary.



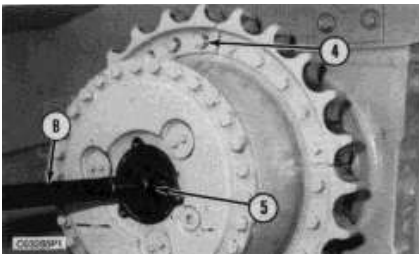
2. Fasten a hoist, and install tooling (A) on the final drive. Make an adjustment to tooling (A), if needed, to level the final drive and steering clutch and brake.

3. Put final drive, steering clutch and brake assembly (1) in position on the tractor.



4. Install two bolts (3) that hold the steering clutch and brake to the frame.

5. Install bolts (2) that hold the final drive and steering clutch and brake to the frame. Tighten 26 bolts (2) to a torque of  $650 \pm 50 \text{ N}\cdot\text{m}$  ( $480 \pm 37 \text{ lb ft}$ ). Remove tooling (A).

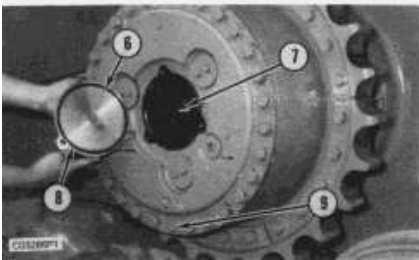


6. Put SAE 30 oil on the threads of two segment bolts (4). Install the bolts and nuts with the head of the bolts and washers against the final drive. Tighten the nuts to a torque of  $300 \pm 50 \text{ N}\cdot\text{m}$  ( $221 \pm 37 \text{ lb ft}$ ). Tighten the nuts 1/3 turn more. Final torque must be a minimum of  $570 \text{ N}\cdot\text{m}$  ( $420 \text{ lb ft}$ ).

**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.

7. Install tool (B) on the inner axle, and install the inner axle. Remove tool (B).

8. Install tool (B) on the outer axle, and install outer axle (5) 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.



9. Install retainer (7) into the sun gear.

10. Install O-ring seal (6) on cover (8), and install the cover on the final drive.

11. Rotate the final drive so drain plug (9) is toward the bottom. Fill the final drive with oil to the bottom of the fill hole. See the Operation And Maintenance Guide for the correct oil and capacity to be used.

End By:

a. connect track

## Separate And Connect Final Drives, Steering Clutches And Brake

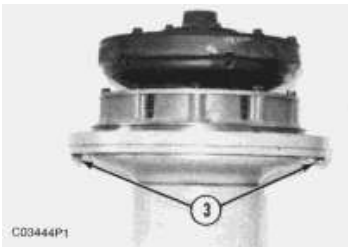
Tools Needed		A
6V2156	Link Bracket	2

Start By:

a. remove final drive, steering clutch and brake



1. Remove four O-ring seals (1) and (2) from the face of the steering clutch and brake.



2. Remove two bolts (3) from the steering clutch and brake.

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