



Service Repair Manual

Models

D7H TRACK-TYPE TRACTOR

Product: TRACK-TYPE TRACTOR

Model: D7H TRACK-TYPE TRACTOR 4AB

Configuration: D7H TRACK-TYPE TRACTOR / POWERSHIFT / 4AB00001-UP (MACHINE) POWERED BY 3306 ENGINE

Disassembly and Assembly D7H TRACTOR POWER TRAIN

Media Number -SEN4176-01

Publication Date -01/06/1993

Date Updated -23/08/2012

SEN41760019

Final Drives

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

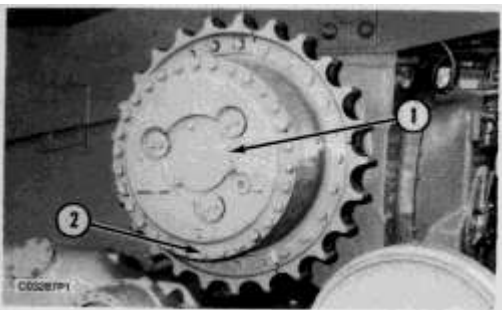
Remove Final Drives

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

Start By:

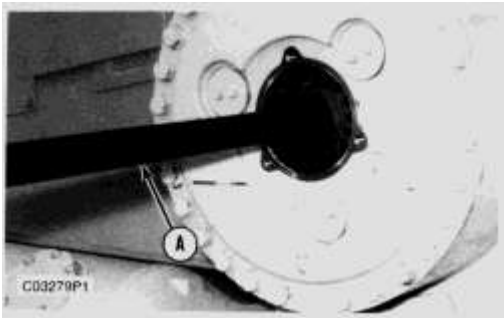
a. separate track

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.

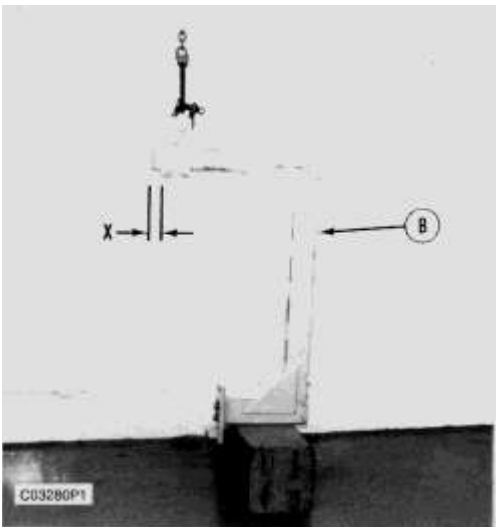


3. Remove the retainer from the sun gear.

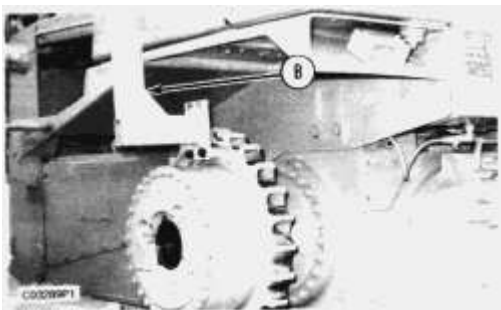
4. Install tool (A), and remove the outer axle.

 **WARNING**

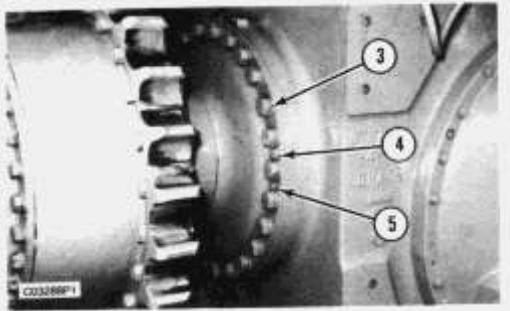
Make sure that the short support of tooling (B) is on the bottom and the long support is on the top when distance (X) is made.



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.



WARNING

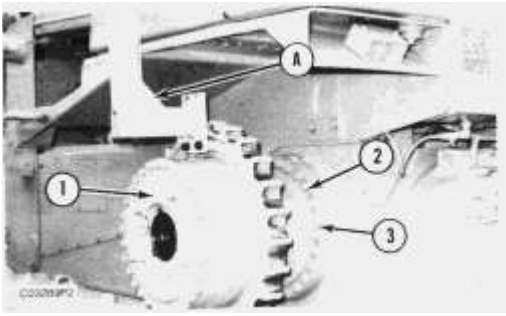
Do not remove two bolts (5) that hold the steering clutch and brake to the frame.

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 x 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.

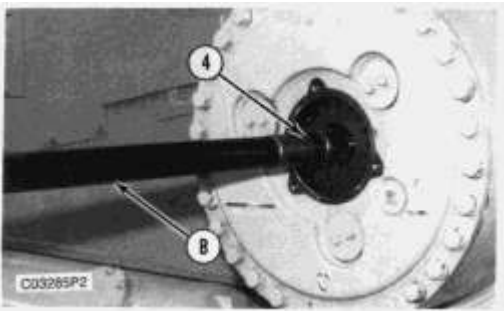


3. Fasten a hoist, and install tooling (A) on final drive (1). Make an adjustment to tooling (A) if necessary to put the final drive in a level position. Put final drive (1) in position on the machine.

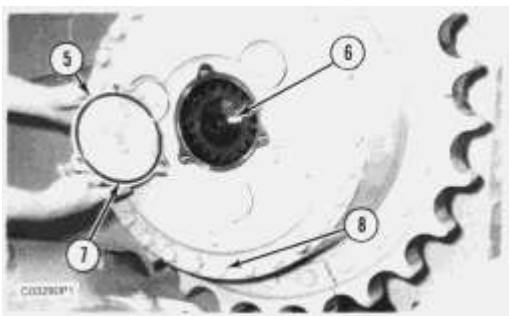
4. Install two bolts (3) that hold the final drive to the steering clutch and brake.

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 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.



8. Install retainer (6) into the sun gear.

9. Install O-ring seal (7) on cover (5), and install the cover on the final drive.

10. Rotate final drive so drain plug (8) is toward the bottom. Fill the final drive with oil to the bottom of the fill plug hole. see the Operator And Maintenance Guide for the type and capacity of oil that should be used.

End By:

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