



# Service Repair Manual

## **Models**

# D6R Track-Type Tractor

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Product: TRACK-TYPE TRACTOR

Model: D6R TRACK-TYPE TRACTOR 4WR

Configuration: D6R AND D6R XL TRACTOR / POWERSHIFT / 4WR00001-UP (MACHINE) POWERED BY 3306 ENGINE

## Disassembly and Assembly D6R TRACK-TYPE TRACTOR POWER TRAIN

Media Number -SEN8357-02

Publication Date -01/05/2005

Date Updated -03/06/2014

SEN83570015

### Final Drives

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

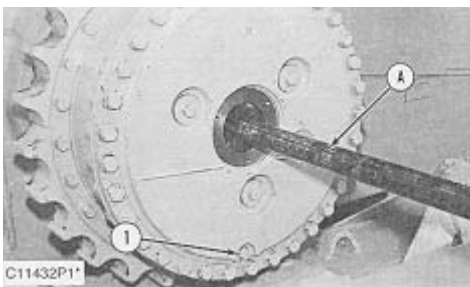
### Remove Final Drives

Tools Needed		A	B
FT1952	Axle Removal Tool	1	
8T3207	Lifting Bracket		1
5P8622	Shackle		1
1D4615	Bolt		2
1B4331	Nut		2
5P8248	Washer		4

Start By:

- a. separate track

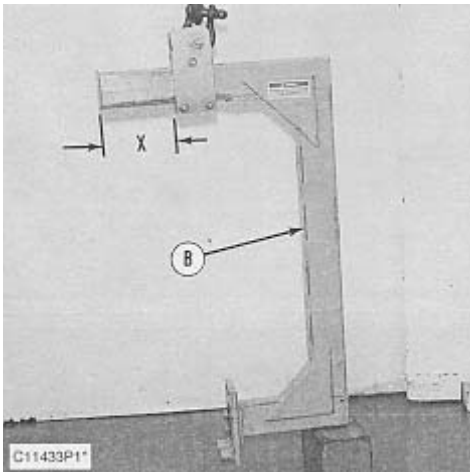
**NOTE:** The final drive planetary carriers can be removed in chassis. See topic, Remove Final Drive Planetary carriers (In Chassis).



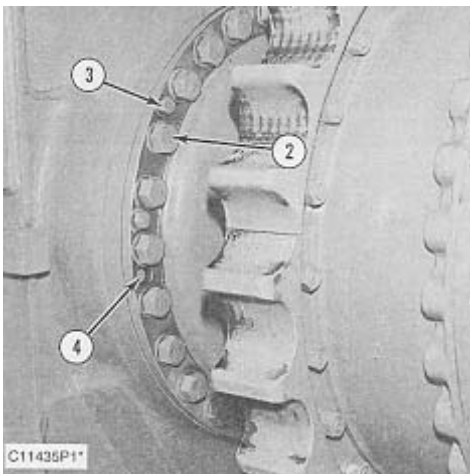
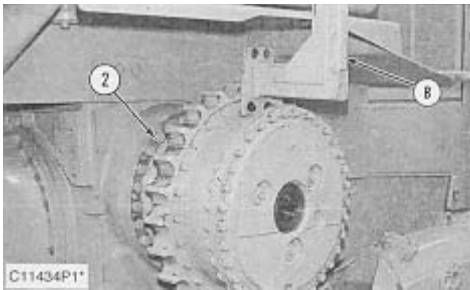
1. Turn the final drive until drain plug (1) is on the bottom as shown. Remove drain plug (1) and drain approximately **13.2 liters (3.4 U.S. gal)** of oil from the final drive.

2. Remove the of cover from the final drive and remove the O-ring seal from the cover.

3. Install Tooling (A) and remove outer axle.



4. Adjust the top bracket on Tooling (B) so that distance (X) is **213 mm (8.4 in)**. The lower mounting bracket must be installed with the spacers outward as shown.



5. Remove two of the bolts from the sprocket segment. Fasten a hoist and install Tooling (B) onto the final drive.

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## NOTICE

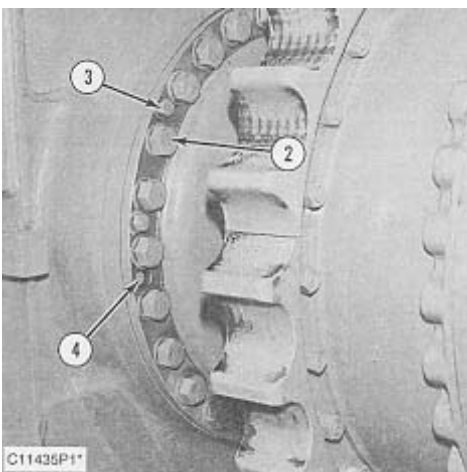
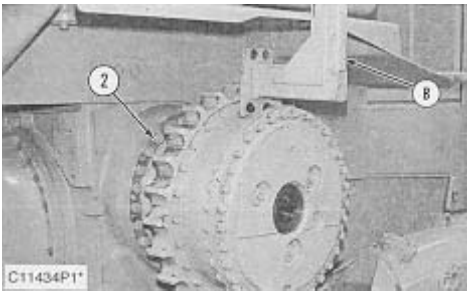
**Bolts (4) hold the steering clutch and brake to the main case and frame.  
Do not remove bolts (4).**

6. Remove bolts (2) that hold the final drive to the main case and frame.
7. The weight of the final drive is **490 kg (1075 lb)**. Remove four bolts (3) that hold the final drive and steering clutch and brake together.
8. Use Tooling (B) and remove the final drive from the machine.
9. Remove the O-ring seal from either the face of the steering clutch or the final drive hub.

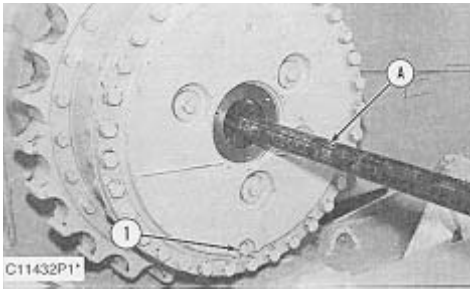
## Install Final Drives

Tools Needed		A	B
FT1952	Axle Removal Tool	1	
8T3207	Lifting Bracket		1
5P8622	Shackle		1
1D4615	Bolt		2
1B4331	Nut		2
5P8248	Washer		4

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 (B) onto the final drive. Adjust Tooling (B), if necessary, to put the final drive in a level position.
4. Put the final drive in position onto the frame and install four 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 main case and frame. Remove Tooling (B)
6. Put **SAE 30 oil** on the threads of the segment bolts. Install the bolts and nuts with the nuts and washers against the final drive. Tighten the nuts to a torque of **175 ± 40 N·m (130 ± 30 lb ft)**. Tighten the nuts **1/3 of a turn more**.



7. Install Tool (A) onto the outer axle and install the axle into the final drive.
8. Install the O-ring seal onto the cover and install the cover onto the final drive.
9. Rotate the final drive so drain plug (1) is toward the bottom. Fill the final drive with oil to the bottom of the fill plug. See the Operation And Maintenance Guide for the type of oil and capacity.

End By:

- a. connect track

## Disassemble Final Drives

Tools Needed		A	B	C	D
6V2156	Link Bracket	3			
1A2029	Bolt	3			
1P510	Driver Group		1		
FT1934	Bear			1	
6V3160	Cylinder			1	
6V9061	Pump Group			1	
1D4621	Bolt			4	
6V2157	Link Bracket				2
2A1538	Bolt				2

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