

Product: TRACK-TYPE TRACTOR

Model: D7H TRACK-TYPE TRACTOR 4FG

Configuration: D7H & D7H LGP TRACTORS /DIFFERENTIAL STEERING/ 4FG04000-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

SEN53170019

Final Drives, Steering Clutches And Brakes

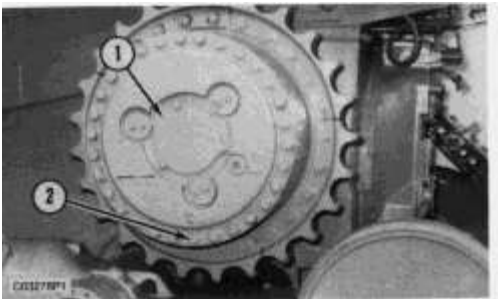
SMCS - 4050; 4100-011; 4100-012; 4100-029

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

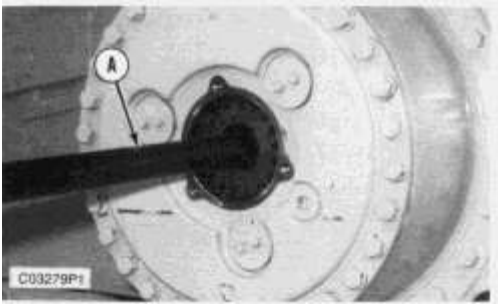
Start By:

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.

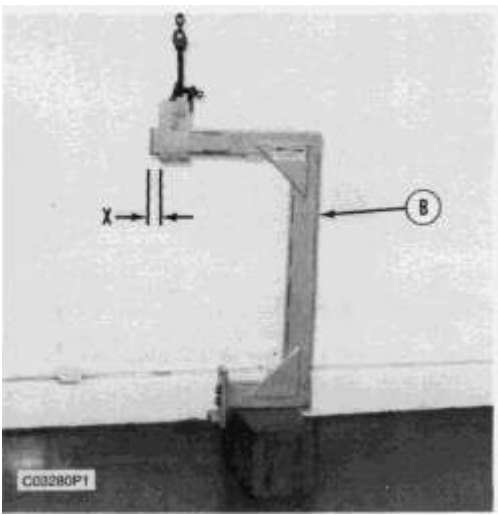
2. Remove the three bolts and cover (1) from the final drive. Remove the O-ring seal from the cover.



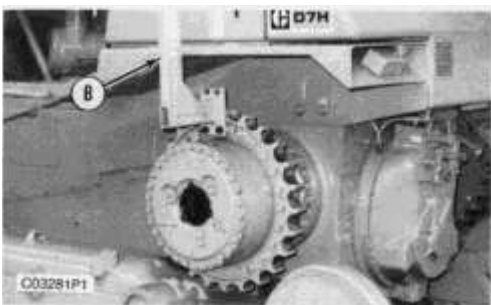
3. Remove the retainer from the end of the axle. Install tooling (A), and remove the outer axle.

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.

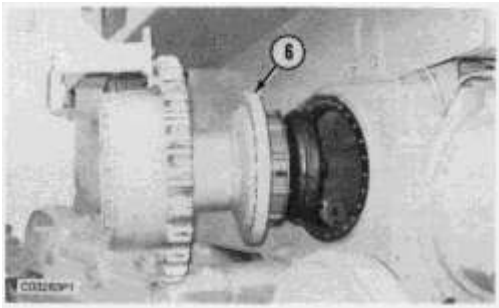
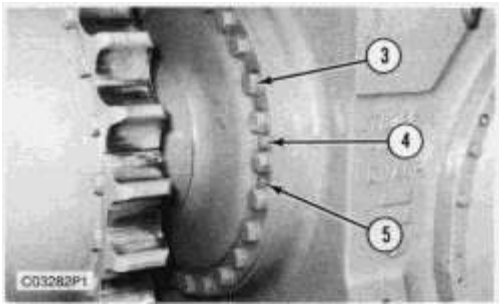
4. Use tooling (A), and remove the inner axle.



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.

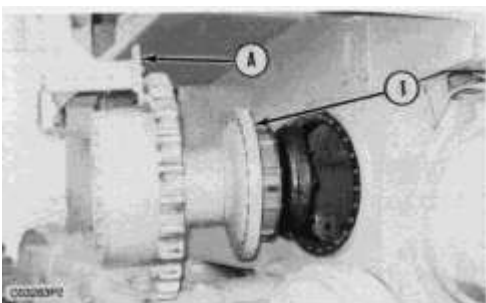
8. The weight of the final drive and steering clutch and brake assembly is **864 kg (1900 lb)**. Remove two bolts (5) that hold the steering clutch and brake to the frame.

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

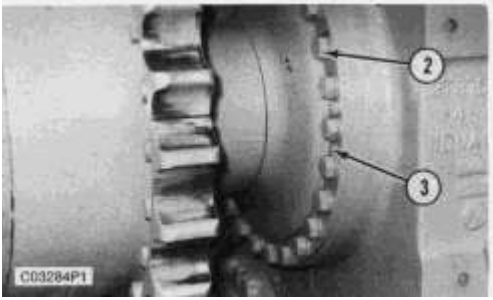
Install Final Drive, Steering Clutch and Brake

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

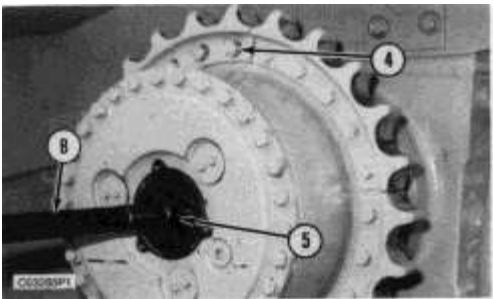
1. Inspect all O-rings for damage, and replace if necessary.



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.



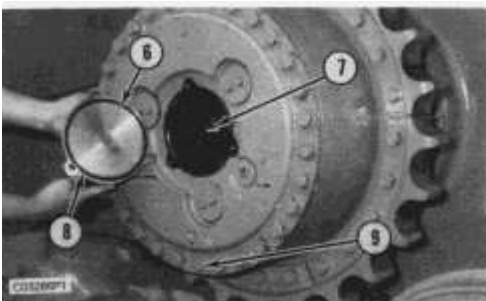
4. Install two bolts (3) that hold the steering clutch and brake to the frame.
5. Install bolts (2) that hold the final drive and steering clutch and brake to the frame. Tighten 26 bolts (2) to a torque of $650 \pm 50 \text{ N}\cdot\text{m}$ ($480 \pm 37 \text{ lb ft}$). Remove tooling (A).



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 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 plug hole. See the Operation And Maintenance Guide for the correct oil and capacity to be used.

End By:

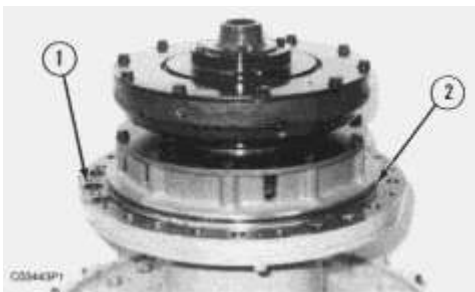
a. connect track

Separate And Connect Final Drives, Steering Clutches And Brake

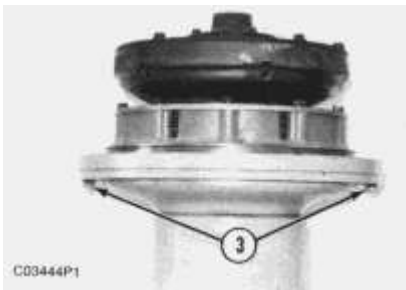
Tools Needed		A
6V2156	Link Bracket	2

Start By:

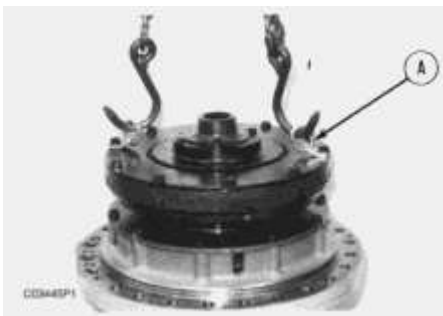
a. remove final drive, steering clutch and brake



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

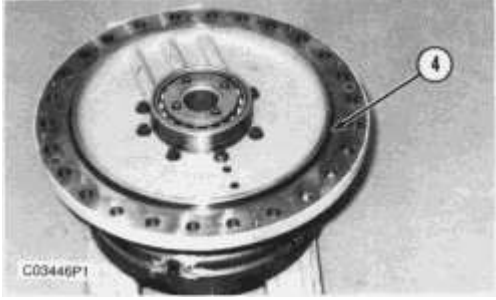


2. Remove two bolts (3) from the steering clutch and brake.



3. The weight of the steering clutch and brake assembly is **240 kg (528 lb)**. Install tooling (A), and attach a hoist as shown.

4. Remove the steering clutch and brake from the final drive.



5. Turn the steering clutch and brake over. Remove O-ring seal (4).

NOTE: The following steps are for connection of the final drive and steering clutch and brake.

6. Inspect the O-ring seals for damage, and replace if necessary. Put clean oil on the O-ring seals.

7. Put O-ring seal (4) in position on the steering clutch and brake.

8. Install tooling (A), and attach a hoist. Put the steering clutch and brake in position on the final drive.

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

10. Put four O-ring seals (1) and (2) in position on the steering clutch and brake.

End By:

a. install final drive and steering clutch and brake

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Disassembly and Assembly D7H SERIES II TRACTOR POWER TRAIN

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SEN53170020

Steering Clutch And Brake

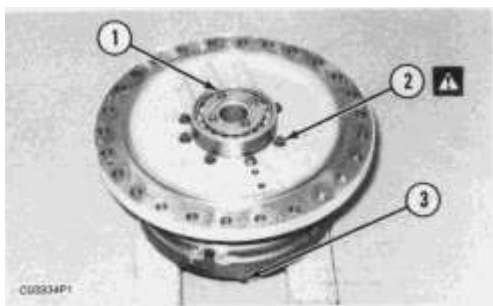
SMCS - 4100-015; 4100-016

Disassemble Steering Clutch And Brake

Tools Needed		A	B	C	D
5P9736	Link Bracket	3			
5P5197	Pliers		1		
1P7405	Forged Eyebolt, 3/8"			3	
1P520	Driver Group				1

Start By:

- a. separate final drive from steering clutch and brake



WARNING

The brake group contains springs that are under compression. To prevent possible personal injury from flying parts, the brake group must be disassembled exactly as the following steps describe. Do not remove bolts (2) until after bolts (3) are slowly loosened and removed.

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