

Product: TRACK-TYPE TRACTOR

Model: D6H TRACK-TYPE TRACTOR 4GG

Configuration: D6H & D6H LGP SERIES II TRACTOR / POWERSHIFT / 4GG05500-UP (MACHINE) POWERED BY 3306 ENGINE

Disassembly and Assembly D6H TRACTOR POWER TRAIN

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SEN32420015

Steering Clutches and Brakes

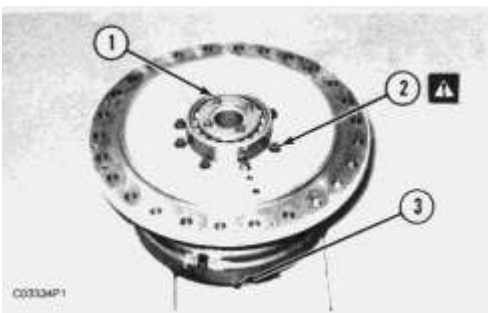
SMCS - 4100-015; 4100-016

Disassemble Steering Clutches and Brakes

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

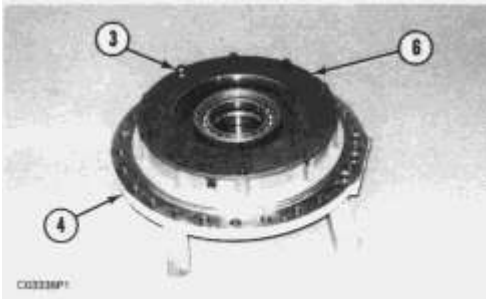
The brake group contains springs that are under compression. To prevent possible personal injury from flying parts, the brake group

must be disassembled exactly as the following steps describe. Do not remove bolts (2) until after bolts (3) are slowly loosened and removed.

1. Remove the four bolts and plate (1) from the steering clutch and brake assembly. Do not remove bolts (2) at this time.



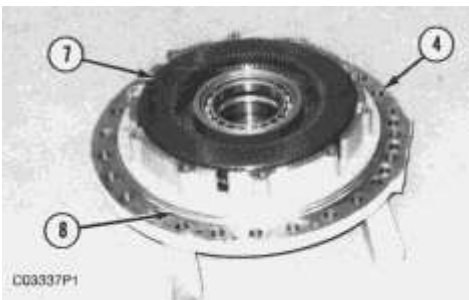
2. Install tooling (A), and attach a hoist. The weight of brake group (4) is **159 kg (350 lb)**. Remove brake group (4) from steering clutch group (5).



WARNING

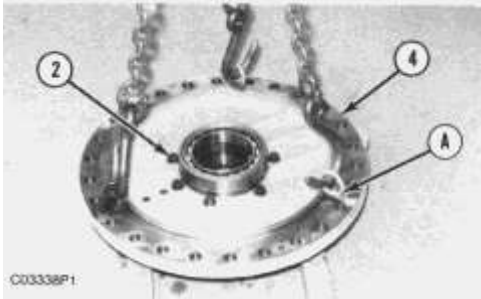
To prevent possible personal injury from flying parts, make sure bolts (2) are tight before bolts (3) are removed. Bolts (3) are long enough to release the spring pressure behind retainer (6) as long as bolts (2) are installed.

3. Turn brake group (4) over. Evenly loosen 10 bolts (3) to release the spring pressure behind retainer (6). Remove bolts (3) and retainer (6).

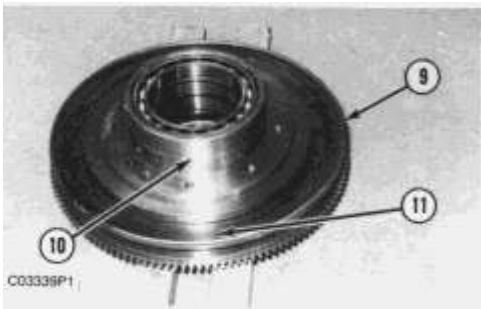


4. Remove four discs (7) and the three plates from brake housing (4).

5. Remove O-ring seal (8) from the brake group.



6. Turn the brake group over, and install tooling (A). The weight of brake housing (4) is **73 kg (161 lb)**. Remove seven bolts (2). Use a soft hammer, and remove brake housing (4) from the retainer.

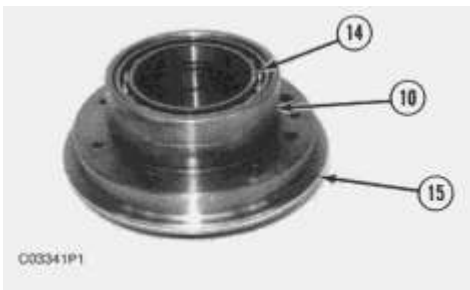


7. Remove ring (9) and spring (11) from retainer (10).



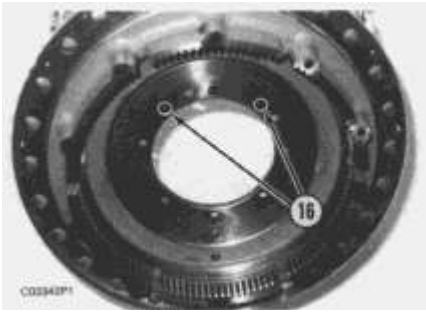
8. Remove ring (12) and piston (13) from the retainer.

9. Remove the seal ring from the inner diameter of piston (13).

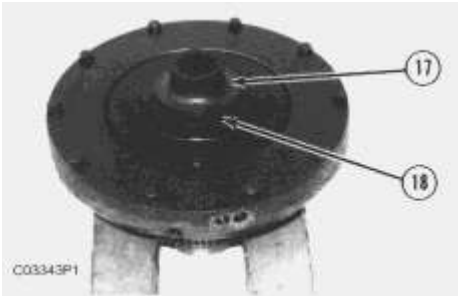


10. Remove seal ring (15) from retainer (10).

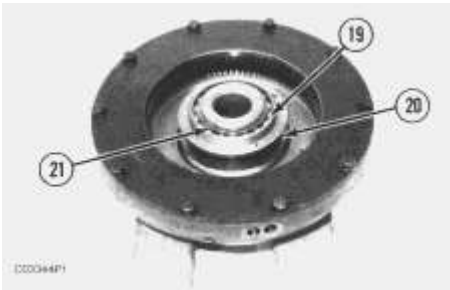
11. Remove two ball bearings (14), one from each side of retainer (10).



12. Remove two O-ring seals (16) from the brake housing.

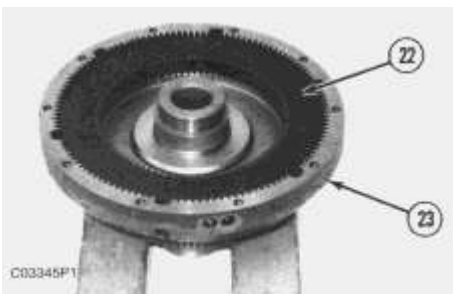


13. The weight of the steering clutch group is **159 kg (350 lb)**. Remove four bolts (18) and hub (17).



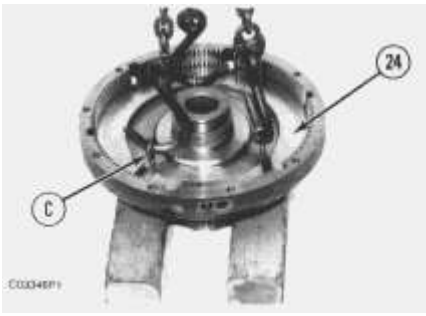
14. Use tool (B), and remove retaining ring (21).

15. Remove plate (20) and bearing (19) from the steering clutch group.



16. Remove the 10 bolts and the retainer.

17. Remove five discs (22) and the four plates from housing (23).



18. Install tooling (C) into the piston. The weight of piston (24) is **19.1 kg (42 lb)**. Remove piston (24) from housing (23).

19. Remove the seal ring from the inner diameter of piston (24).



20. Install tooling (A), and attach a hoist. The weight of housing (23) is **33.6 kg (74 lb)**. The weight of hub assembly (25) is **21 kg (46 lb)**. Raise the housing and hub assembly together, and remove the wood blocks.

21. Lower housing (23), and remove hub assembly (25).

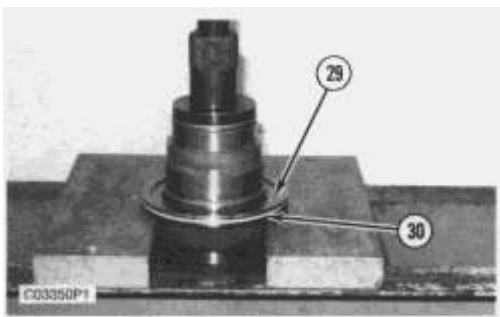


22. Turn housing (23) over, and remove ring (26).



23. Use tool (B), and remove retaining ring (27) from hub assembly (25).

24. Remove three seal rings (28) from the hub assembly.

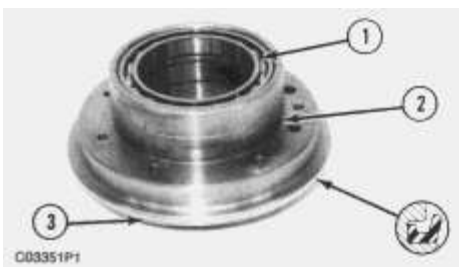


25. Remove O-ring seal (30) from hub assembly (25).

26. Use tooling (D) and a press, and remove plate (29) from the hub assembly.

Assemble Steering Clutches And Brakes

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



1. Lower the temperature of two bearings (1). Install two bearings (1), one in each side of retainer (2).

2. Install seal ring (3) on retainer (2).

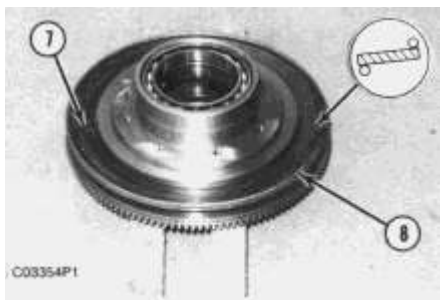


3. Install seal ring (5) in piston (4).



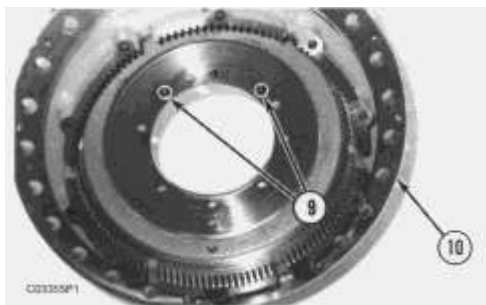
4. Put piston (4) in position on retainer (2).

5. Put ring (6) in position on piston (4).

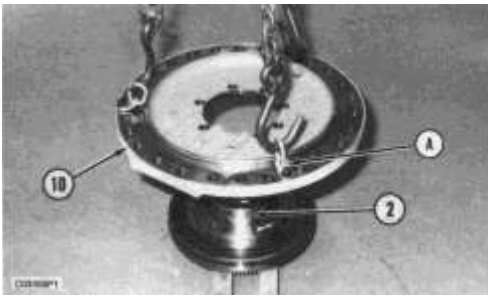


6. Put spring (7) in position on ring (6) and piston (4). Spring (7) goes with the concave side up.

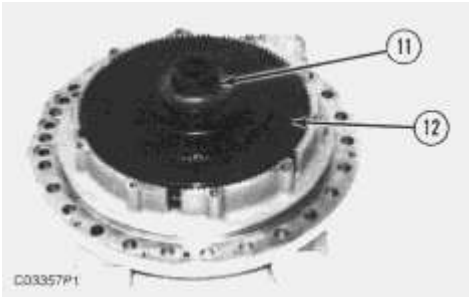
7. Put ring (8) in position on spring (7).



8. Install two O-ring seals (9) on brake housing (10).

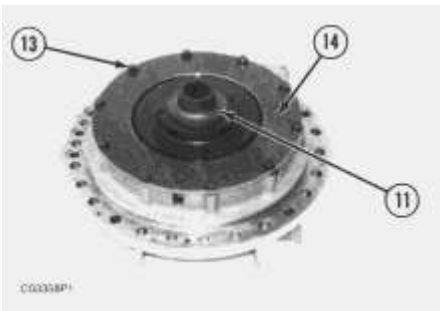


9. Install tooling (A) onto brake housing (10). Attach a hoist, and put the brake housing in position on retainer (2), and install the seven bolts that hold it.



NOTE: A disc assembly has friction material on both sides. A plate is a smooth steel plate and does not have friction material on either side. Put clean oil on all disc assemblies and plates before assembly.

10. Turn the brake housing over. Put steering clutch hub (11) in position to align the discs. Install four discs (12) and the three plates into the housing. Alternate installation of the discs and plates. Start with a disc and end with a disc.



11. Put retainer (14) in position on the discs and brake housing.

NOTICE

Make sure the disc assemblies do not get between retainer (14) and the brake housing when the bolts are tightened.

12. Install bolts (13) and snug evenly, but do not tighten. Bolts (13) put the spring under compression. Bolts (13) should not be tightened now so the brake discs can be aligned with the steering clutch housing splines in Step 28.

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