

Product: TRACK-TYPE TRACTOR

Model: D6H TRACK-TYPE TRACTOR 4GG

Configuration: D6H TRACK-TYPE TRACTOR / POWERSHIFT / 4GG00001-UP (MACHINE) POWERED BY 3306 ENGINE

## Disassembly and Assembly D6H TRACTOR POWER TRAIN

Media Number -SEN3242-03

Publication Date -01/11/2004

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SEN32420027

### Torque Divider

SMCS - 3113-010; 3113-015; 3113-016

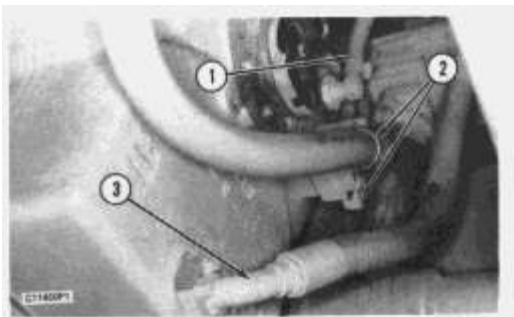
## Remove And Install Torque Divider

Start By:

- a. remove torque converter outlet relief valve
- b. remove main drive shaft

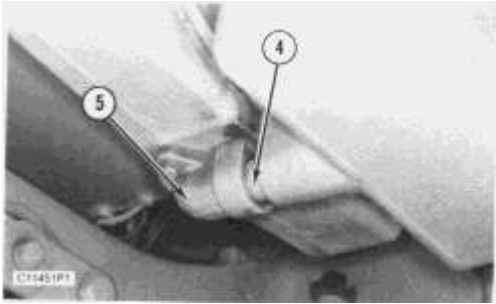
Tools Needed		A	B
5P9736	Link Bracket	2	2
8S9906	Ratchet Puller		1
	Sheave Hook from 5P9694 Ratchet Hoist		1

1. Remove the floor plate in cab.



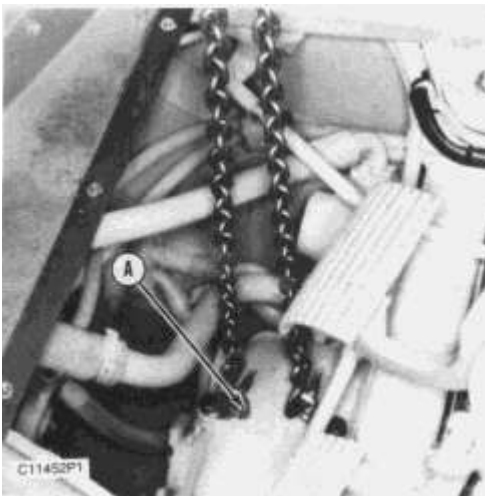
2. Loosen the flange bolts on hose (3) and drain the oil from the torque divider. Disconnect hose (3) from the torque divider when the oil has drained. Remove the O-ring seal from hose (3).

3. Disconnect hose assemblies (2) and remove the O-ring seal. Disconnect hose assembly (1) from the torque divider.



4. Remove elbow (5) from the bottom of the flywheel housing. Remove the O-ring seal from elbow (5).

5. Remove sleeve (4). Remove two O-ring seals from sleeve (4).



6. The weight of the torque divider is **145 kg (320 lb)**. Install tooling (A) onto the torque divider.

7. Install tooling (B) to the ceiling of the cab, as shown. Attach tooling (B) to tooling (A).

8. Remove the twelve bolts that fasten the torque divider to the flywheel housing. Separate the torque divider from the flywheel housing. Use tooling (B) and lower the torque divider to the ground.

9. Remove the large O-ring seal from the torque divider housing.

**NOTE:** The following steps are for installation of the torque divider.

10. Install the O-ring seal onto the torque divider housing.

11. Use tooling (A), tooling (B), and two 3/8" guide bolts and put the torque divider in position on the flywheel housing.

12. Make sure the teeth are aligned with the flywheel, and install the twelve bolts that hold the torque divider to the flywheel housing. Remove tooling (A) and (B).

13. Install the O-ring seals onto sleeve (4) and elbow (5). Install the sleeve and elbow onto the bottom of the torque divider.

14. Put the O-ring seal in position on hose assemblies (2). Connect hose assemblies (2) and (1) to the torque divider.

15. Put the O-ring seal in position on hose assembly (3) and connect it to the torque divider housing.

16. Install the floor plate in cab.

17. Check the power train oil level and add as necessary. See the Operation and Maintenance Guide for the type of oil and capacity.

End By:

a. install torque converter outlet relief valve

b. install main drive shaft

## Disassemble Torque Divider

Tools Needed		A	B	C	D	E	F	G
1P1863	Pliers	1						
5P9736	Link Bracket		2					
5P4758	Pliers			1				
6V2156	Link Bracket				1			
1P510	Driver Group					1		
1P520	Driver Group						1	
2P8312	Pliers							1

Start By:

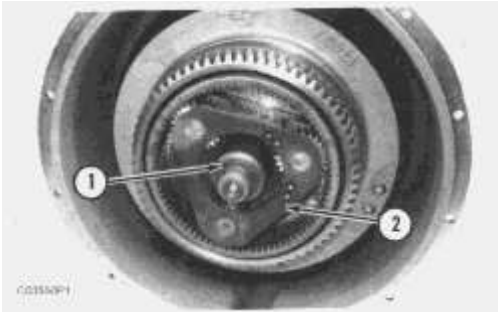
a. remove torque divider

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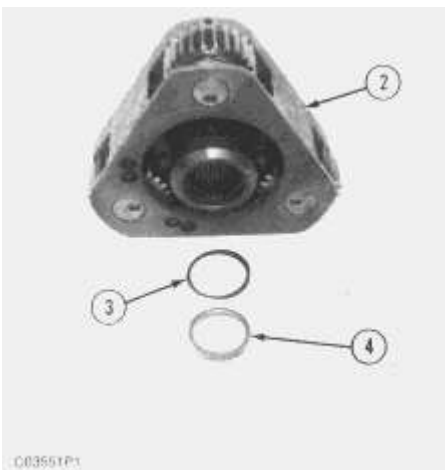
## NOTICE

**When a torque converter or divider has a failure, the complete oil system for the torque converter, torque divider and transmission must be thoroughly cleaned. Any foreign material which is not removed from the oil system for the torque converter will move through the hydraulic system for the transmission.**

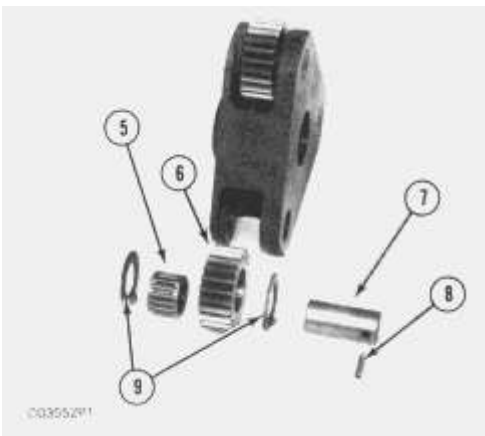
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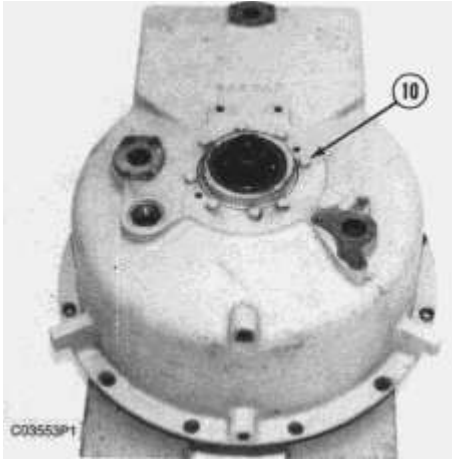
1. Use tool (A), and remove retaining ring (1) from the shaft.
2. Remove planetary carrier (2).



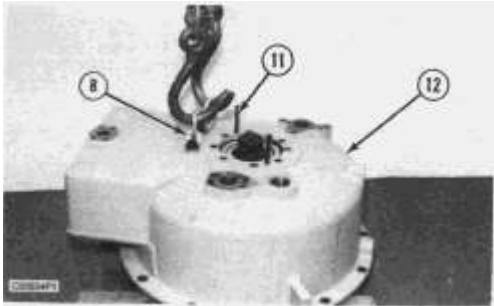
3. Remove retainer (4) and retaining ring (3) from the planetary carrier.



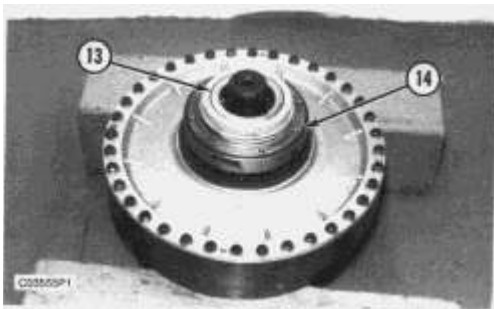
4. Use a hammer and a punch to push pin (8) into shaft (7).
5. Remove shaft (7), two washers (9) and gear (6).
6. Remove bearings (5) from the gear.
7. Remove the pin from shaft (7).



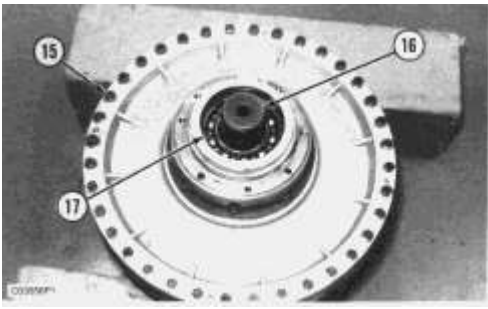
8. Remove the bolt, retainer, O-ring seal and yoke.
9. Put wood blocks under the converter group, as shown, so the cover can be removed.
10. Remove eight bolts (10).



11. The weight of cover (12) is **68 kg (150 lb)**. Install tooling (B), and attach a hoist. Install two 3/8 "-16 NC forcing screws (11) in the cover. Tighten the forcing screws evenly, and remove cover (12).



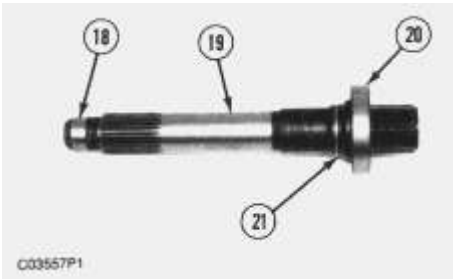
12. Remove O-ring seal (14) and lip-type seal (13).



13. Remove two bolts (15) and washers 180° apart from each other. Drain the oil from the converter.

14. Use tool (C), and remove retaining ring (17).

15. Remove shaft assembly (16) and the bearing.



16. Remove seal ring (21) from shaft assembly (19).

17. Remove bearing (20) from the shaft assembly.

**NOTE:** Race (18) will be destroyed if it is removed from the shaft assembly.

18. Remove race (18) from the shaft assembly if necessary.



19. Remove the remaining thirty-four bolts (15) and washers. Install two 3/8 "-16 NC forcing screws (23) into impeller wheel (22).

20. The weight of impeller wheel (22) and the carrier assembly is **30 kg (66 lb)**. Install tooling (D), and attach a hoist. Tighten two forcing screws (23) evenly, and remove the impeller wheel and carrier assembly.

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## NOTICE

**Use care to avoid causing damage to the stator when it is removed.**

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