Product: TRACK-TYPE TRACTOR
Model: D6C TRACK-TYPE TRACTOR 69J
Configuration: D6C TRACTOR / POWERSHIFT / 69J02539-UP (MACHINE) POWERED BY 3306 ENGINE

Disassembly and Assembly
D6 TRACTOR POWER TRAIN
Media Number -REG00856-02 **Publication Date -01/11/1974** **Date Updated -25/11/2013**

REG008560013

Final Drive Gears, Idler Pinions And Bearings

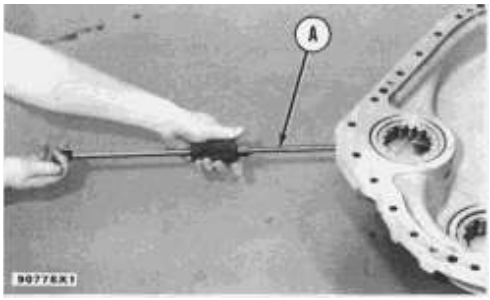
SMCS - 4075-11; 4075-12

Remove Final Drive Gears, Idler Pinions And Bearings

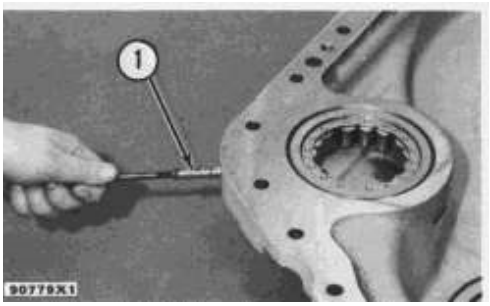
Tools Needed		A	B	C	D	E	F
1P3075	Puller Assembly	1					
8B7548	Puller Assembly		1				
8B7554	Puller Assembly		1				
7S9484	Spacer Assembly			2			
9S8900	Cylinder Group			1			
2B4206	Yoke Assembly			1			
5F9306	Arm			2			
6H4158	Pin			2			
5F7694	Plug			1			
5F7693	Spacer			1			
7B2499	Ring			4			
9S5800	Pump Group			1	1	1	1
1P820	Puller Group				1	1	1
1B4207	Nut				2	2	2
8H465	Plate				4	4	4
5F7369	Leg				2	2	
S2398	Spacer Plate				1	1	
8B7551	Bearing Puller Attachment				1		
5F7343	Bearing Puller Attachment					1	
5F7342	Adapter					2	
8B7560	Step Plate						1
8B7549	Leg						2
8H663	Bearing Puller Attachment						1

start by:

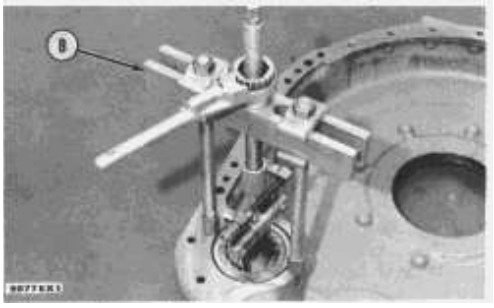
a) remove final drive cases



1. Remove the plug from the final drive case with tool (A).

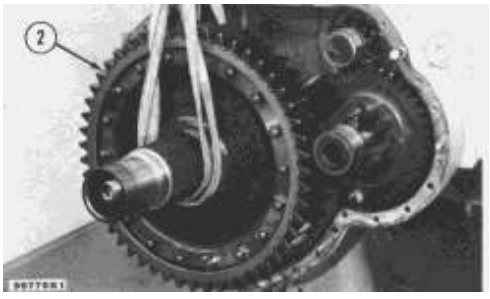


2. Remove dowel (1) from the final drive case with a 1/4"-20 NC bolt.



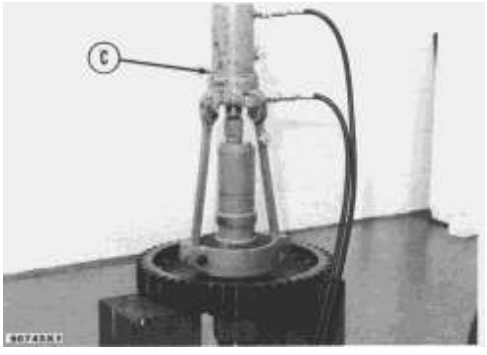
3. Remove the two bearings from the final drive case with tooling (B).

4. Install one of the final drive case bolts in the steering clutch case as shown. Put a wire around the gear and pinion and the bolt.



NOTE: The wire will hold the gear and pinion in position during removal of the gear and hub (2).

5. Fasten a hoist to the gear and hub (2). Weight of the gear and hub is 250 lb. (113.4 kg). Remove the gear and hub from the sprocket shaft.

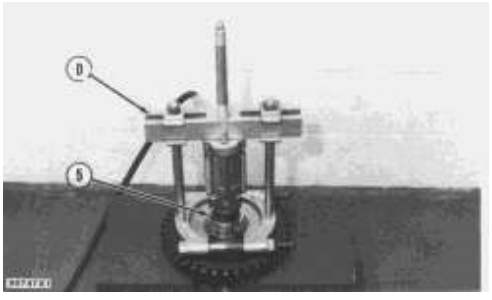


6. Put the gear and hub on wood blocks. Remove the bearing from the gear and hub with tooling (C).

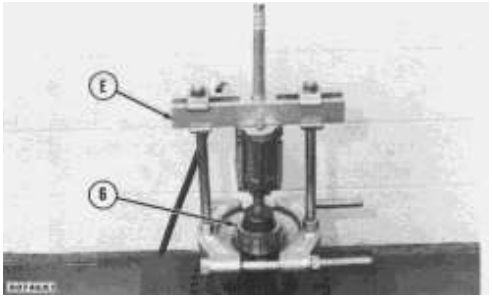
7. Remove the eighteen bolts, locks and nuts from the gear and hub. Remove the gear from the hub.

8. Remove bearing cup (3) from the steering clutch case.

9. Remove the wire from the gear and pinion. Fasten a hoist to the gear and pinion. Weight of the gear and pinion is 76 lb. (34.5 kg). Remove the gear and pinion (4) from the steering clutch case.



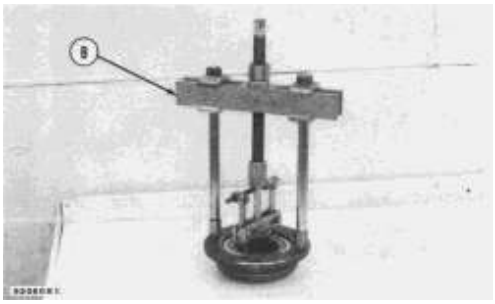
10. Put the gear and pinion on wood blocks. Remove bearing race (5) with tooling (D).



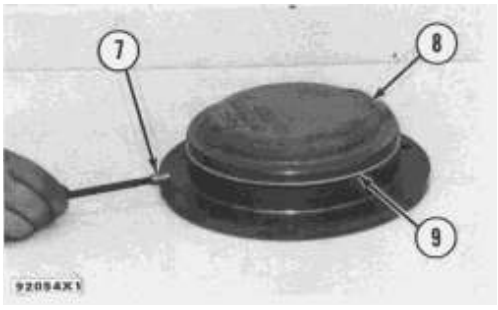
11. Turn the gear and pinion over. Remove bearing race (6) with tooling (E).

12. Remove the oil from the bevel gear case and the steering clutch case.

13. Install three 1/2"-13 NC forcing screws in cage (7). Remove the bearing and cage from the steering clutch case.



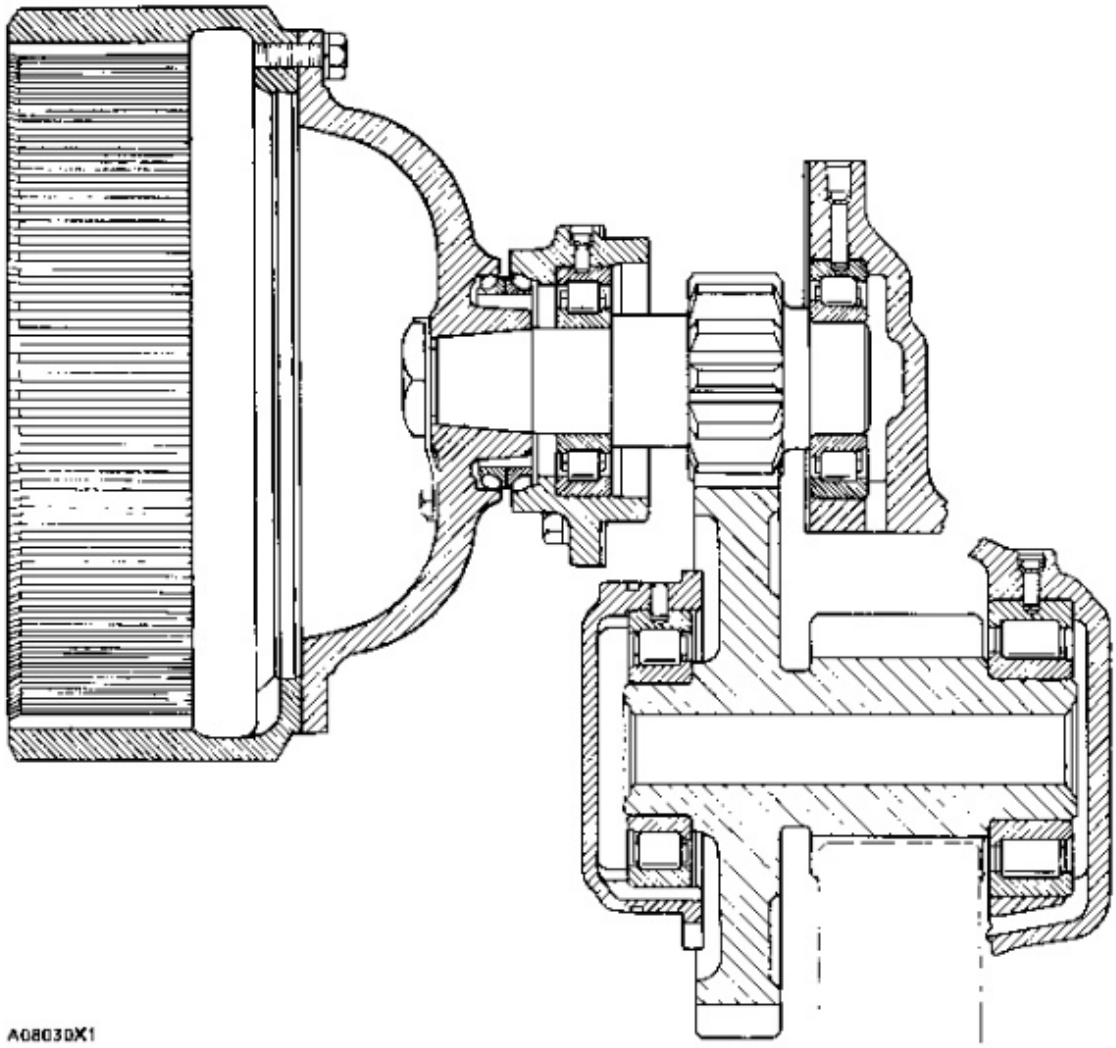
14. Remove the bearing from the cage with tooling (B).



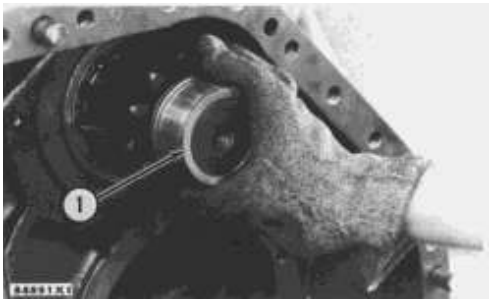
15. Remove dowel (7) from the cage with a 1/4"-20 NC bolt.

16. Remove seal (9) from the cage (8).

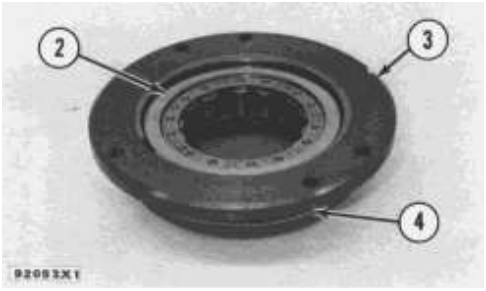
17. Remove the outer bearing race from the pinion shaft with tooling (F).



Install Final Drive Gears, Idler Pinions And Bearings



1. Heat the outer bearing race (1) in oil to a maximum temperature of 275°F (135°C). Install the outer race on the pinion shaft as shown.



2. Lower the temperature of bearing (2). Install the bearing in cage (3). Make sure the hole in the bearing is in alignment with the hole in the cage during installation of the bearing. Install the dowel that holds the bearing in position.

3. Install a new seal (4) on the cage. Put clean SAE 30 oil on the seal.

4. Install the bearing and cage (5) in the steering clutch case. Make sure the oil groove in the cage is facing down as shown.

5. Heat the outer bearing race (6) in oil to a maximum temperature of 275°F (135°C). Install the outer bearing race on the gear and pinion as shown.

6. Turn the gear and pinion gear. Heat the inner bearing race (7) in oil to a maximum temperature of 275°F (135°C). Install the inner bearing race on the gear and pinion as shown.

7. Lower the temperature of bearing cup (8). Install the bearing cup in the steering clutch case even with the machined surface of the steering clutch case.

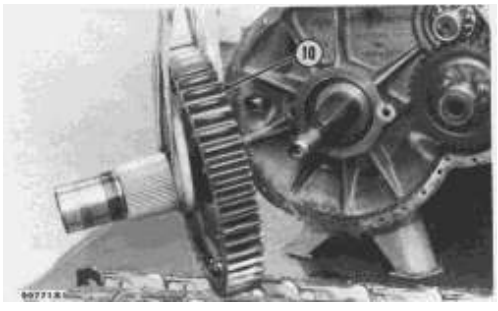
8. Put 1P808 General Purpose Lubricant on the bearing rollers. Fasten a hoist to the gear and pinion. Install the gear and pinion (9) in the steering clutch case.

9. Put a wire around the gear and pinion and the bolt in the steering clutch case.

NOTE: The wire will hold the gear and pinion in position during installation of the gear and hub.

10. Put the gear on the hub. Install the eighteen bolts, nuts and locks.

11. Heat the bearing for the gear and hub in oil to a maximum temperature of 275°F (135°C). Install the bearing on the hub.



12. Fasten a hoist to the gear and hub. Put the gear and hub (10) in position on the sprocket shaft. Remove the wire from the gear and pinion. Remove the bolt from the steering clutch case.

13. Put the two bearings in position in the final drive case. Make sure the holes in the bearings are in alignment with the holes in the final drive case. Install the dowels that hold the bearings in position. Use a 1/4"-20 NC bolt to install the dowels. Install the plugs over the dowels.

14. Fill the steering clutch case and the bevel gear case with oil to the correct level. See LUBRICATION AND MAINTENANCE GUIDE.

end by:

a) install final drive cases

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Configuration: D6C TRACTOR / POWERSHIFT / 69J02539-UP (MACHINE) POWERED BY 3306 ENGINE

Disassembly and Assembly
D6 TRACTOR POWER TRAIN
Media Number -REG00856-02 **Publication Date -01/11/1974** **Date Updated -25/11/2013**

REG008560014

Sprocket Shaft

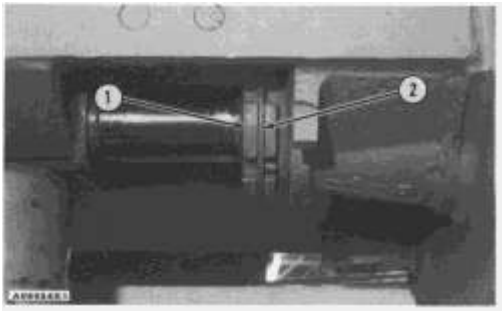
SMCS - 4058-11; 4058-12

Remove Sprocket Shaft

Tools Needed		A	B
7F9306	Wrench	1	
5F9888	Adapter		1
5F9892	Pin		2
3P2248	Adapter		1
5F9882	Adapter		1
5F9879	Adapter		1
3S6224	Pump Group		1
9S8901	Cylinder Group		1
5S1430	Sleeve		1
9H3992	Head		1

start by:

a) remove final drive gears, idler pinions and bearings

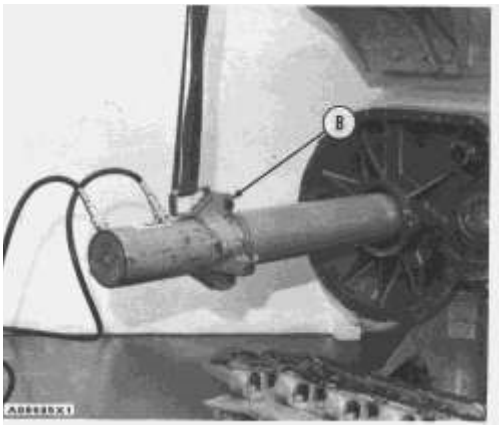


1. Remove ring (2) and the pin from nut (1).

2. Loosen nut (1) with tool (A) until there is a clearance of .125 in. (3.2 mm) between the nut and the steering clutch case.

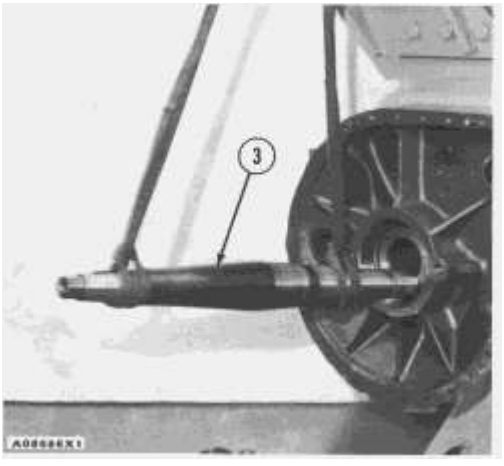
NOTICE

Do not remove the nut from the sprocket shaft until the sprocket shaft is loosened.



3. Put tooling (B) on the sprocket shaft. Loosen the sprocket shaft.

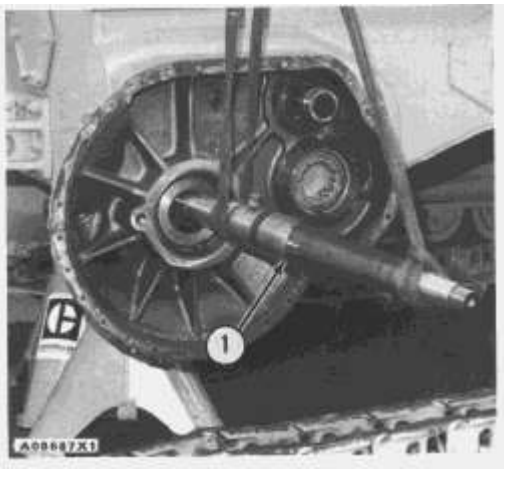
4. Remove tooling (B) from the sprocket shaft.



5. Fasten a hoist to the sprocket shaft (3). Remove nut (1) from the end of the sprocket shaft. Slide the sprocket shaft out of the steering clutch case. Weight of the sprocket shaft is 100 lb. (45.4 kg).

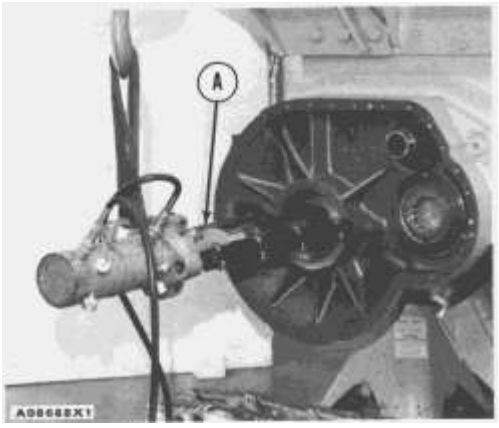
Install Sprocket Shaft

Tools Needed		A	B
1P3053	Adapter	2	
1P3052	Link	8	
6H4158	Pin	10	
1P3054	Adapter	2	
9S8901	Cylinder Group	1	
3S6224	Pump Group	1	
5F9879	Adapter	1	
5F9888	Adapter	1	
5F9892	Pin	1	
7F9306	Wrench		1



1. Fasten a hoist to the sprocket shaft (1). Put the sprocket shaft in the steering clutch case as far as possible by hand and remove the hoist.

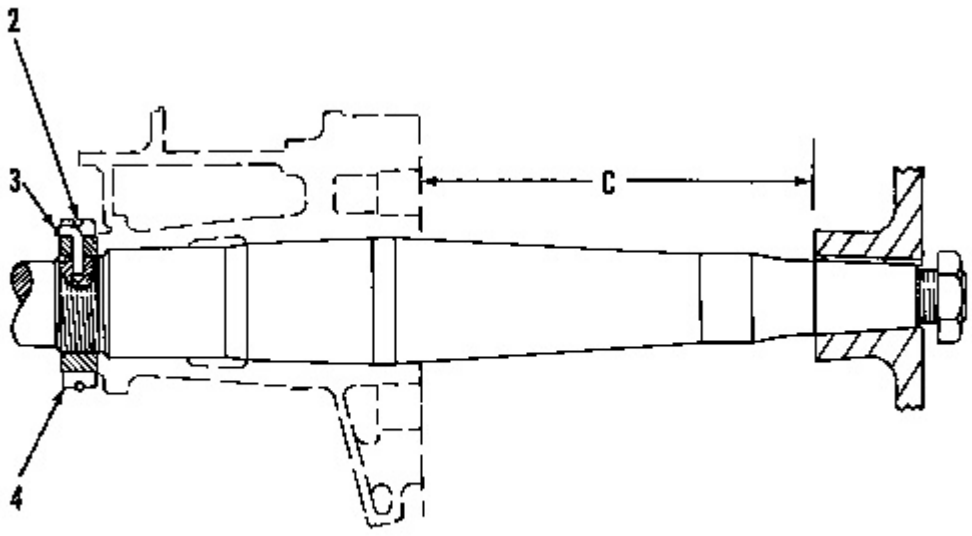
2. Install the nut on the end of the sprocket shaft. Do not tighten the nut.



3. Put tooling (A) on the sprocket shaft. Install the sprocket shaft with a force of 20 to 30 tons (18.14 to 27.22 M.tons).

4. Tighten the nut on the end of the sprocket shaft with tool (B). The nut must be tightened with the pressure still on the sprocket shaft.

5. Release the pressure on the sprocket shaft. Remove tooling (A).



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6. Measure the distance from the inside face of the holder assembly to the separation line between the steering clutch case and the final drive case. Distance (C) must be 12.938 ± .062 in. (328.63 ± 1.57 mm).

7. Fasten nut (4) in position as follows:

a) Make a .368 in. (9.34 mm) hole in one of the grooves in nut (4). Drill the hole through the nut and .75 in. (19.1 mm) deep in the sprocket shaft.

b) Install pin (3).

c) Install ring (2).

end by:

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