



Service Repair Manual

Models

231D and 231D LC
EXCAVATOR

Tools Needed		A	B	C	D	E	F	G
1H3112	Bearing Puller Assembly							1
8S6586	Screw-Forcing							1
1P1858	Pliers	1						
8B7554	Puller Assembly-Cup		1					
8B7560	Step Plate		1	1	1			
5F7345	Screw-Forcing		1					
8B7548	Puller Assembly-Bearing			1	1			
8B7550	Leg-Push/Puller			2	2			
5H9976	Screw			1	1			
8H684	Ratchet Wrench			1	1			
8H663	Puller Assembly-Bearing			1				
8B7551	Puller Assembly-Bearing				1			
4C4865	Pump Group (or electric)					1	1	
6V3175	Cylinder Group					1		
1H3107	Puller Assembly-Bearing					1		
1H3110	Bearing Puller Assembly					1		
1H3108	Leg-Push Puller					2		
9S9154	Step Plate					1		
9S8900	Cylinder Group-Hydraulic						1	
5F9306	Arm-Puller						3	
5H9909	Pin Assembly-Puller						3	
6H1825	Adapter-Puller						3	
8F6220	Nut						3	
2P8348	Adapter						1	
5F9882	Adapter-Puller						1	
5F9888	Adapter-Coupling						1	
5F9892	Pin						1	

Tools Needed		H	J
1P1855	Pliers	1	
FT522	Lifting Bracket		2
1D4720	Nut		2

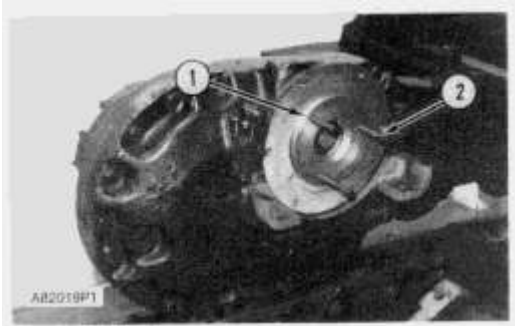
Start By:

- a. remove sprockets
 - b. remove parking brakes
-

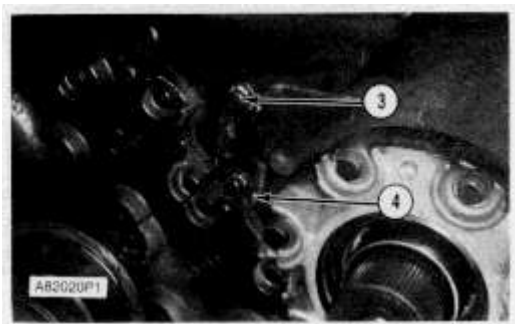
NOTICE

Keep all parts clean from contaminants. Contaminants put into the system may cause rapid wear and shortened component life.

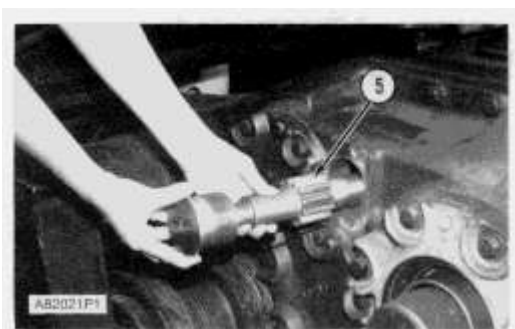
1. Remove the oil from the final drive housing.



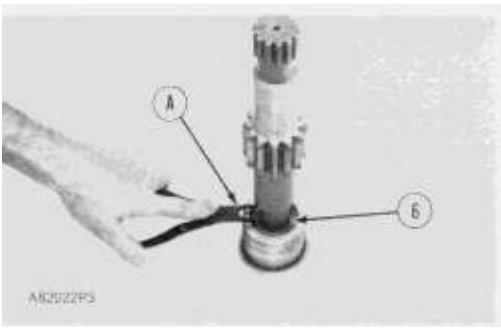
2. Install three 1/2" - 13 NC forcing screws (2) in cover (1). Remove cover (1).



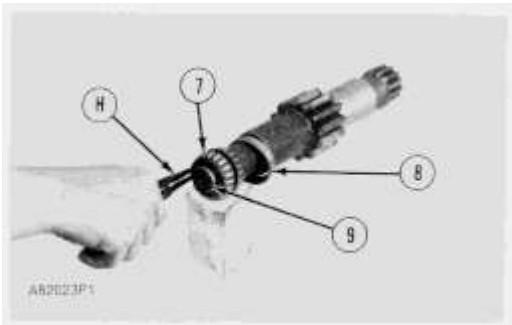
3. Remove two bolts (3) and bracket (4).



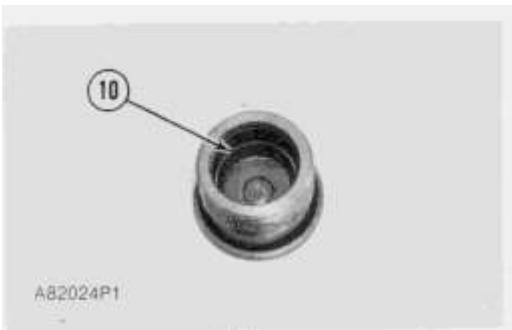
4. Remove disconnect pinion (5) and the O-ring seal from the pinion.



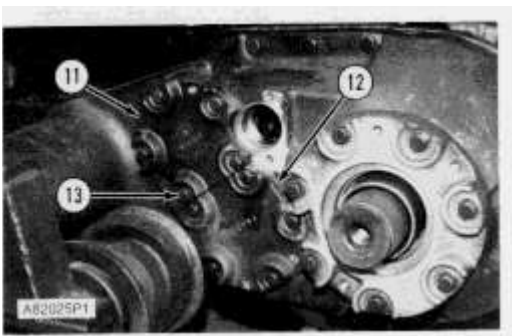
5. Remove snap ring (6) from pinion cap with tool (A). Remove the cap.



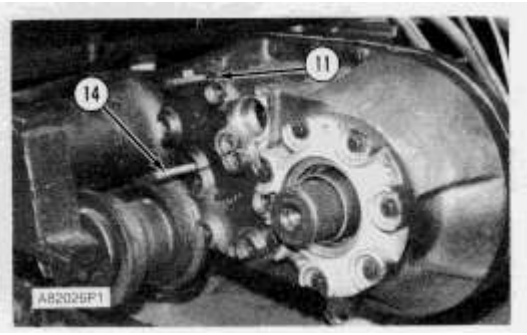
6. Using tool (H), remove snap ring (9). Remove bearings (7) and cup (8).



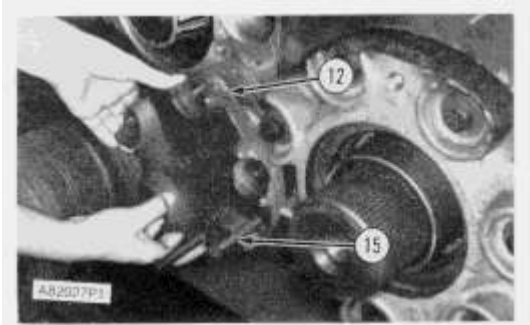
7. Remove bearing cup (10).



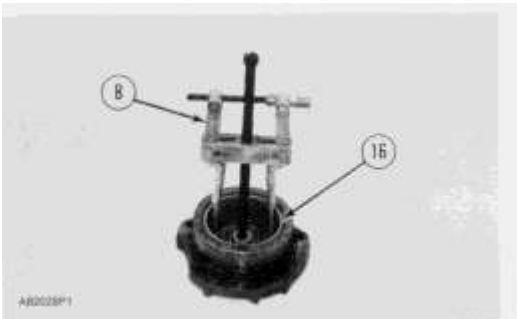
8. Remove ten bolts (13) from cages (11) and (12).



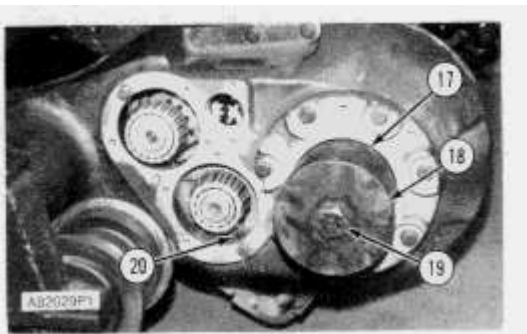
9. Install two 5/8" - 11 NC forcing screws (14) in cage (11) and remove the cover, shims and the O-ring seal.



10. Install two 1/2" - 13 NC forcing screws (15) in cage (12) and remove the cover, shims and the O-ring seal.



11. Install tooling (B) and remove bearing cups (16) from cages (11) and (12).



12. Install two bolts from cages (11) and (12) in the final drive housing. Install wire (20) around the bolts and bearings to hold the gear assemblies in place when the rear cover is removed.

13. Install a piece of pipe (17) that has an outside diameter of 165.1 mm (6.5 in.) and an inside diameter of 152.4 mm (6 in.) on the output gear shaft. Install a 177.8 mm (7 in.) diameter plate

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