



Service Repair Manual

Models

416 BACKHOE LOADER

Product: BACKHOE LOADER

Model: 416 BACKHOE LOADER 5PC

Configuration: 416 BACKHOE LOADER 5PC06192-10761 (MACHINE) POWERED BY 4.236 DIESEL ENGINE

Disassembly and Assembly BACKHOE LOADERS POWER TRAIN

Media Number -SEN3133-01

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SEN31330002

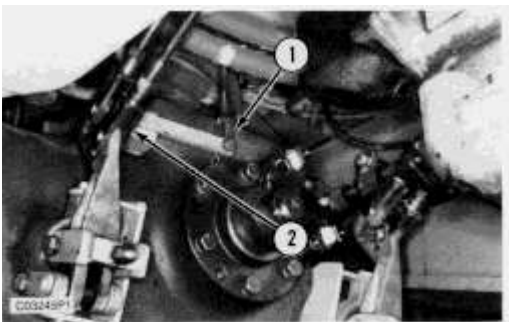
Rear Axle Group

SMCS - 3260-010; 3260-015; 3260-016

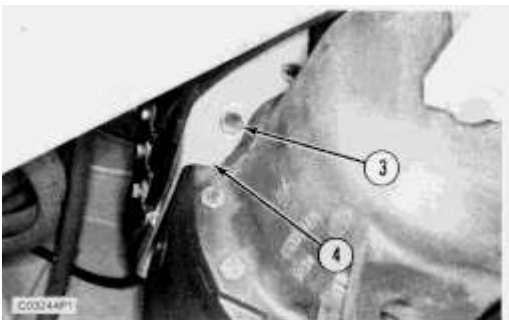
Remove And Install Rear Axle Group

START BY:

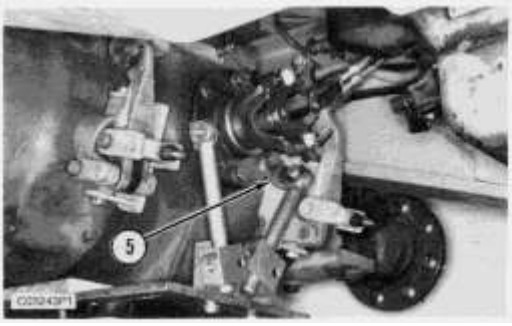
- a. remove main drive shaft
- b. remove rear wheels



1. Disconnect differential lock linkage (1).
2. Disconnect four brake linkages (2).

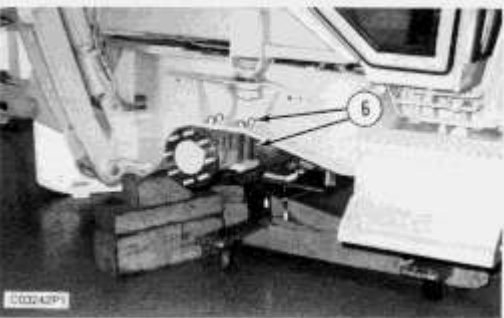


3. Remove bolts (3) that hold bracket (4) to the rear axle.

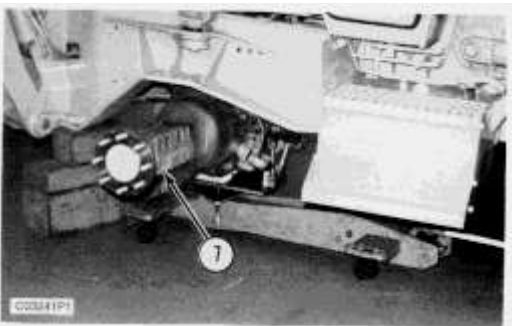


4. Position a suitable transmission jack underneath the rear axle. Remove two bolts from the drive shaft flange.

5. Install support brackets (5) in place of the two bolts in the drive shaft flange.



6. Remove four mounting nuts and bolts (6) [both sides].



7. Lower the jack, and remove the rear axle (7). Weight of the rear axle is 450 kg (990 lb.).

NOTE: For installation of the rear axle, use the reverse order of Steps 1 through 7.

END BY:

a. install rear wheels

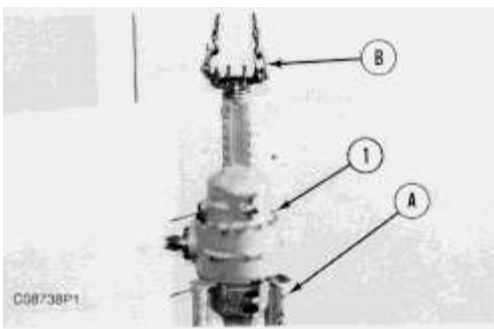
b. install main drive shaft

Disassemble Rear Axle Group

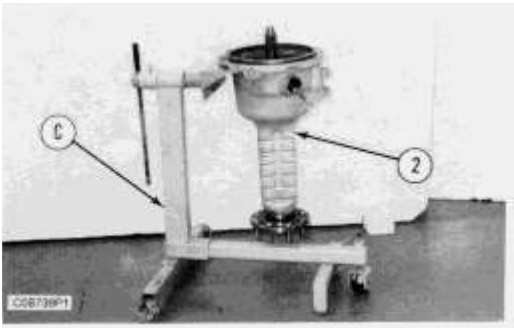
Tools Needed		A	B	C	D	E	F
1P2420	Transmission Repair Stand	1					
FT996	Positioning Group	1					
6V2157	Link Bracket		2				
5P982	Repair Stand			1			
5P979	Adapter Tube			1			
FT1870	Adapter Assembly			1			
8B7551	Bearing Pulling Attachment				1	1	
5P4170	Step Plate				1		
8B7548	Push-Puller				1	1	
8B7555	Adapter					2	
9S9154	Step Plate					1	
8B7550	Leg					2	
8T3111	Plate						1

START BY:

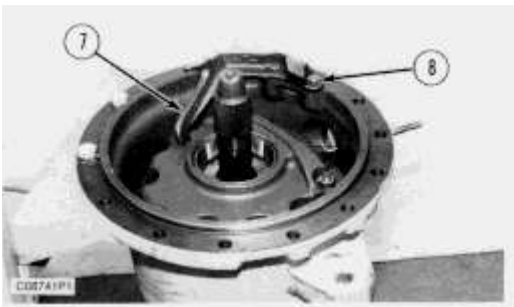
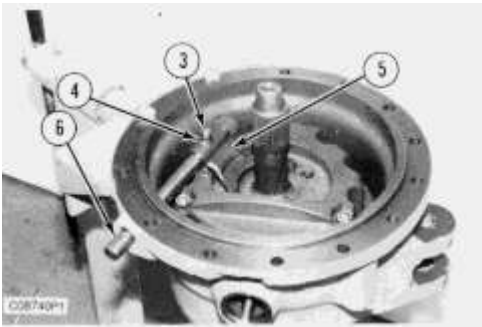
a. remove rear axle group



1. Drain the oil from the axle housings.
2. If possible, leave a tire on one end of the axle group, and use it as a platform to hold the axle housing in the vertical position. If this is not possible, put the axle group in position on tooling (A).
3. Fasten tooling (B) and a hoist to the axle housing as shown. Remove bolts (1) and the nuts. Remove the axle housing from the differential case. Weight is 159 kg (350 lb.).



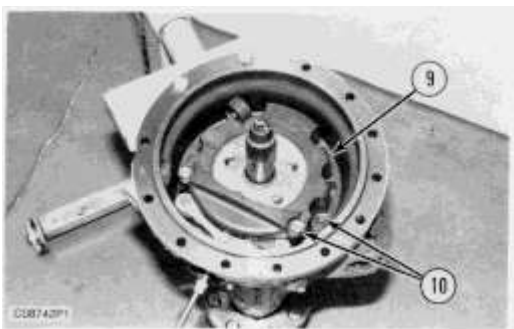
4. Put axle housing (2) in position on tooling (C).



5. RIGHT SIDE AXLE HOUSING ONLY - Loosen nut (4), and remove bolt (3). Slide lower shaft (6) from the housing, and remove differential lock fork (5).

6. LEFT SIDE AXLE HOUSING ONLY - Remove bolts (8) and differential thrust block (7).

NOTE: From this point on, the axle housings are very similar. The right side axle housing only will be shown for disassembly.



7. Remove nuts and bolts (10) to remove inner brake housing (9).

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