



Service Repair Manual

Models

966F WHEEL LOADER

Product: WHEEL LOADER

Model: 966F WHEEL LOADER 3XJ

Configuration: 966F WHEEL LOADER 3XJ00001-UP (MACHINE) POWERED BY 3306 Engine

Disassembly and Assembly 966F WHEEL LOADER POWER TRAIN

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SEN47710012

Axle Shaft Assemblies

SMCS - 3260-017

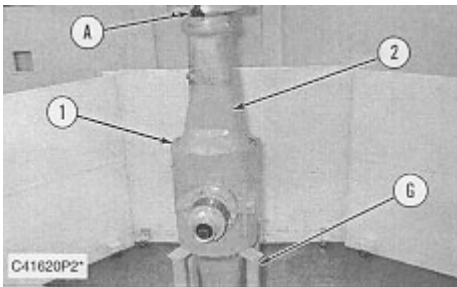
Disassemble & Assemble Axle Shaft Assemblies

Tools Needed		A	B	C	D	E	F	G
6V2157	Link Bracket	2						
1P1863	Pliers		1					
6V2156	Link Bracket			3				
6V7820	Torque Multiplier				1			
4C8500	Spanner Wrench Assembly				1			
FT1183	Plate					1		
1U6436	Installer						1	
1P2420	Transmission Repair Stand							1

Start By:

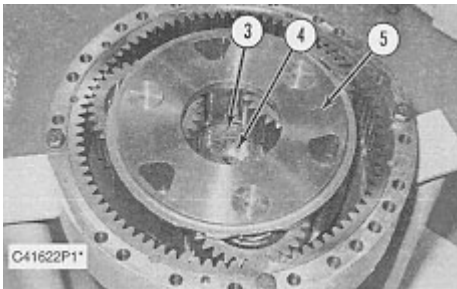
- a. remove front axle housing group (fixed)
- b. remove rear axle housing group (oscillating)

NOTE: The axle shaft assemblies used in the front and rear axle housing groups are similar. The removal, disassembly, assembly and installation procedures are the same for both axle groups.



1. Install the axle housing group on Tool (G) in a vertical position as shown.

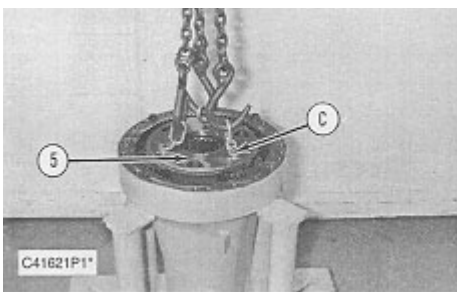
2. Fasten Tool (A) and a hoist to the rim flange of the axle shaft as shown. Remove twenty six bolts (1) and the washers that hold axle shaft assembly (2) to the differential housing. Carefully remove the axle shaft assembly. The weight of the axle shaft assembly is approximately 295 kg (650 lb).



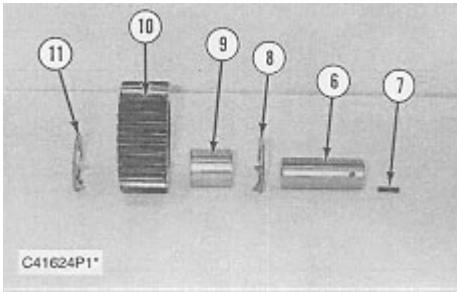
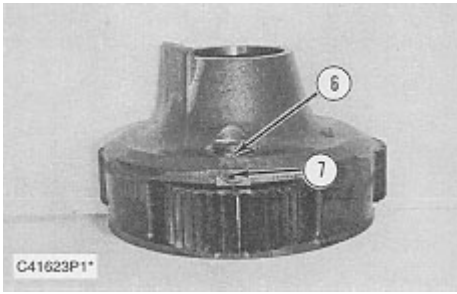
3. Remove the bottom half of the axle housing group from Tool (G). Install axle shaft assembly on Tool (G) with planetary carrier assembly (5) facing up as shown.

NOTE: To completely remove retaining ring (3) from the axle shaft assembly, planetary carrier assembly (5) must be removed and disassembled.

4. Use Tool (B) to remove retaining ring (3) from the groove in the end of the axle shaft (4). Position the retaining ring in the planetary carrier.

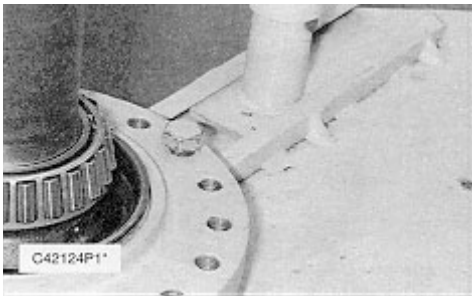


5. Fasten Tool (C) and a hoist to planetary carrier assembly (5) as shown. Remove the planetary carrier assembly from the axle shaft housing. The weight of the planetary carrier assembly is approximately 80 kg (175 lb).

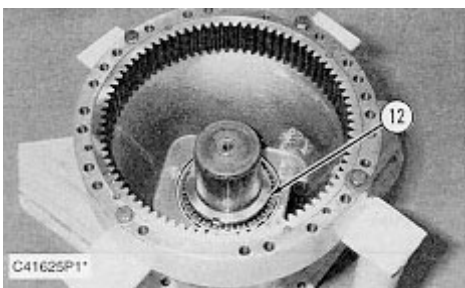


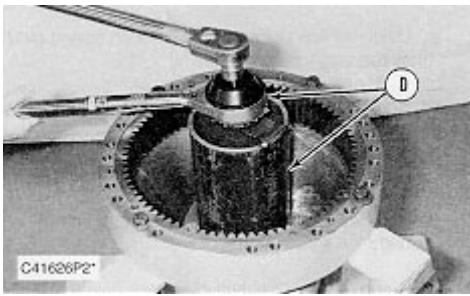
6. Disassemble planetary carrier assembly (5) as follows:

- a.** Using a hammer and punch, push spring pin (7) all the way into shaft (6).
- b.** Remove shaft (6), thrust washers (11) and (8) and planetary gear (10) from the carrier.
- c.** Remove bearing (9) from planetary gear (10).
- d.** Remove spring pin (7) from shaft (6) with a hammer and punch.
- e.** Remove the other two planetary gears (10) from the carrier as in Steps 6a through 6d.
- f.** Remove retaining ring (3) from the carrier.

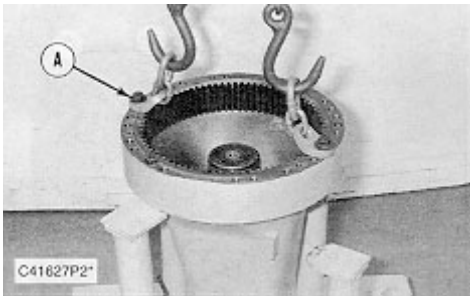


The axle shaft housing has been removed from the axle shaft for better photo illustration of mounting the axle shaft to Tool (G).

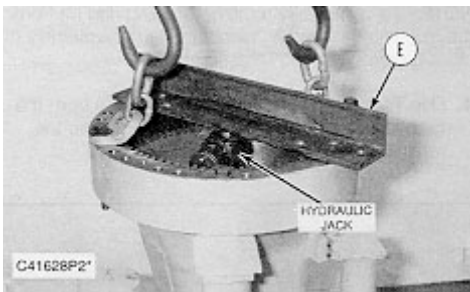




7. Fasten the rim flange of the axle shaft to Tool (G) with suitable size bolts as shown in Photo C42124P1. Installation of the bolt will prevent the axle shaft from turning when bearing nut (12) is removed. Use Tooling (D) to remove bearing nut (12) from the axle shaft.



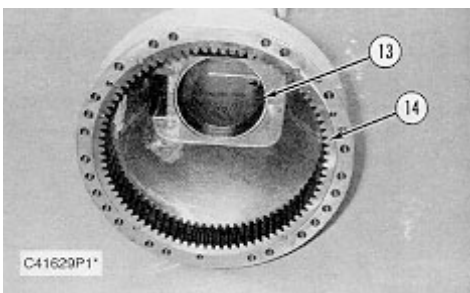
8. Fasten Tooling (A) and a hoist to the axle shaft housing as shown. Put slight lifting tension on the axle shaft housing.



NOTE: The bearing cone which is located under bearing nut (12) will be removed at the same time that the axle shaft housing is being removed from the axle shaft.

9. Fasten Tool (E) to the axle shaft housing as shown. Put a hand operated hydraulic jack between Tool (E) and the end of the axle shaft as shown. Operate the hydraulic jack to push the axle shaft bearing and inner bearing cone off of the axle shaft. Remove the axle shaft housing and inner bearing cone from the axle shaft. The weight of the axle shaft housing is approximately 105 kg (231 lb).

10. Remove the inner bearing cone from the axle shaft housing.



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