Ferreyros CAT
Pantalla anterior

CATERPILLAR

Bienvenido: cr080jphu

Producto: WHEEL LOADER
Modelo: 930R WHEEL LOADER 57Z
Configuración: 930T WHEEL LOADER 57Z04000-UP (MACHINE) POWERED BY 3304 ENGINE

Desarmado y Armado
930R WHEEL LOADER POWER TRAIN
Número de medio -SENR2434-01 **Fecha de publicación -01/03/1985** **Fecha de actualización -11/10/2001**

Wheel Assemblies, Bearings And Seals

SMCS - 4208-11 ; 4208-12

930T

Remove Wheel Assemblies, Bearings And Seals

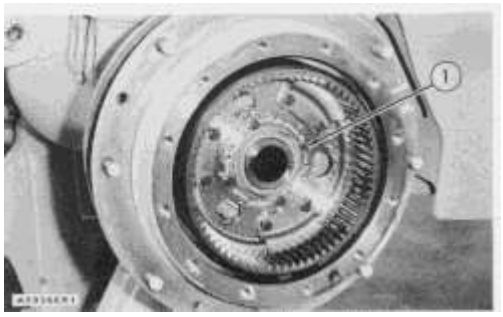
	Tools Needed	A	B	C	D
FT522	Lifting Bracket	1			
9S9066	Spanner Wrench		1		
5P3508	Torque Multiplier		1		
8B7554	Bearing Cup Puller Attachment			1	1
8B7548	Puller Assembly			1	1
8H684	Ratchet Box Wrench			1	1
8B7556	Adapter				2

start by:

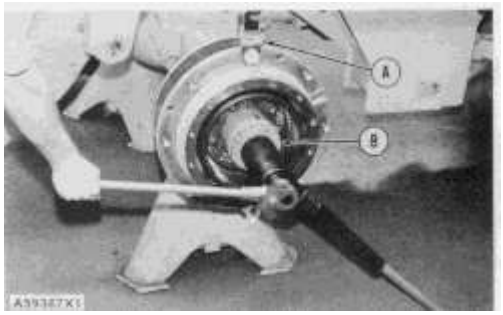
a) remove rim and tire

b) remove brake head assemblies

c) remove final drives

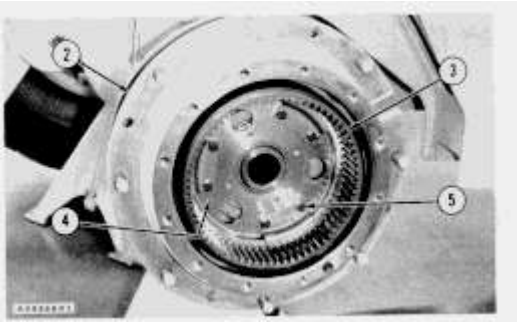


1. Remove the lockwire and four bolts (1).



2. Fasten a hoist to the wheel assembly with tool (A).

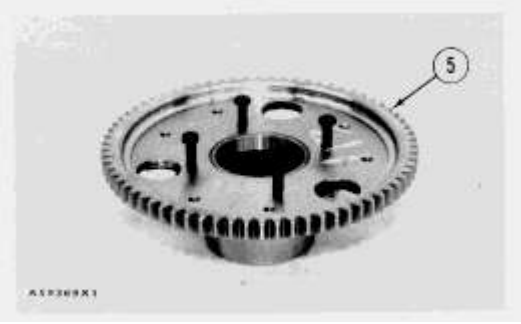
3. Use tooling (B) to remove the nut that holds the wheel assembly on the spindle.



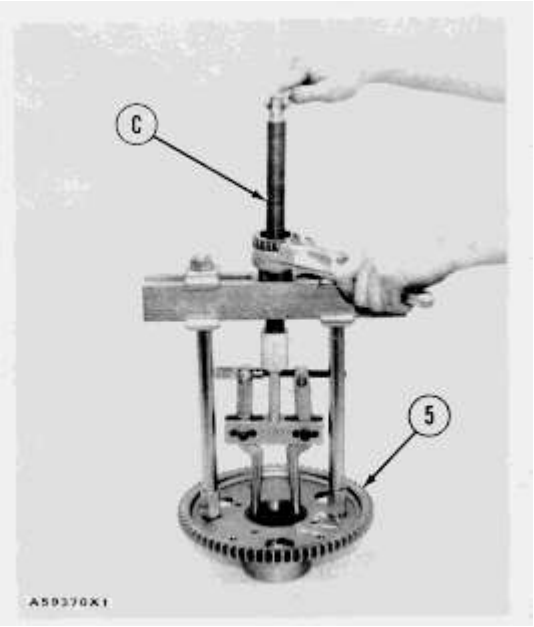
4. Bend the locks from bolts (4). Remove the bolts, locks and plates that hold ring gear (3) in position. Remove ring gear (3).

5. Remove hub assembly (5) from the spindle.

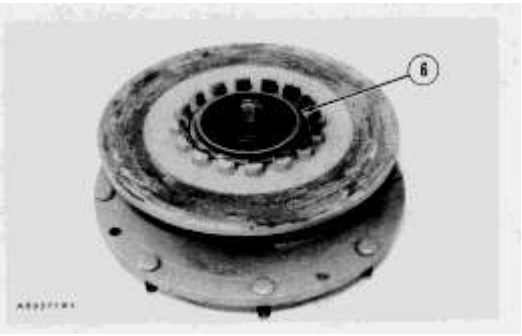
6. Remove wheel assembly (2). The weight of the wheel assembly is 145 lb. (65 kg).



7. Install four 3/8" - 16 NC forcing screws in hub assembly (5). Tighten the forcing screws until they make contact with the outer wheel bearing cone. Tighten the forcing screws evenly to remove the bearing cone from the hub assembly.



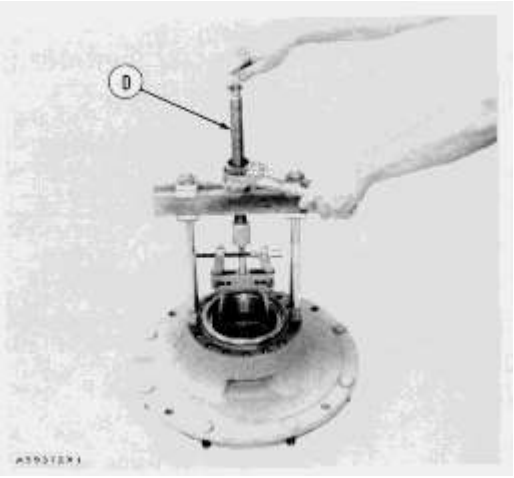
8. Remove the bushing from hub assembly (5) with tooling (C).



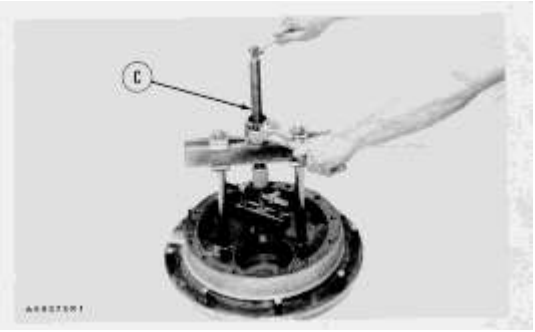
9. Remove the outer half of the Duo-Cone floating seal (6) from the wheel assembly.

10. Remove the rubber toric sealing ring from the metal floating ring.

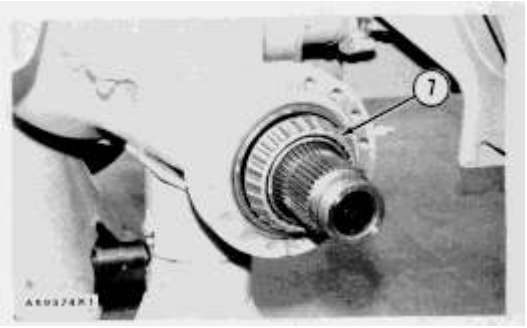
11. Remove the wheel brake disc from the wheel assembly.



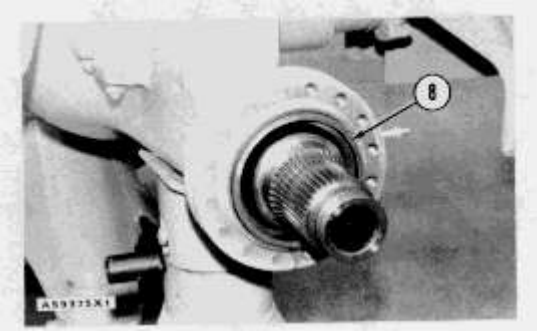
12. Remove the outer bearing cup with tooling (D).



13. Remove the inner bearing cup with tooling (C).



14. Remove the inner bearing cone (7) from the spindle.



15. Remove the inner half of the Duo-Cone floating seal (8) from the spindle. Remove the rubber toric sealing ring from the metal floating ring.

Install Wheel Assemblies, Bearings And Seals

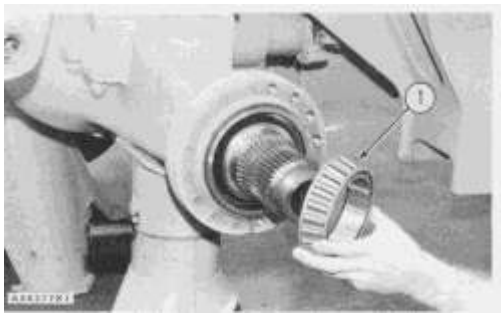
	Tools Needed	A	B	C
5S4276	Seal Installer	1		
FT522	Lifting Bracket		1	
9S9066	Spanner Wrench			1

1. Install the rubber toric sealing ring on the metal floating seal for each half of the Duo-Cone floating seal.

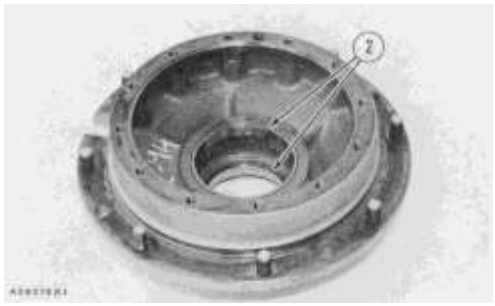
NOTE: The rubber seal and the metal ring that makes contact with it must be clean and dry. Put a small amount of SAE 30 oil on the outside surface of the metal seal ring that does not make contact with the rubber seal.



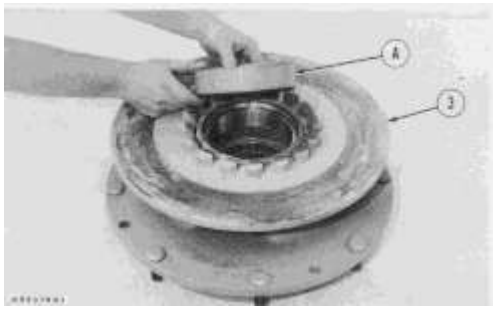
2. Install one half of the Duo-Cone floating seal on the spindle with tool (A).



3. Install the inner bearing cone (1) on the spindle.

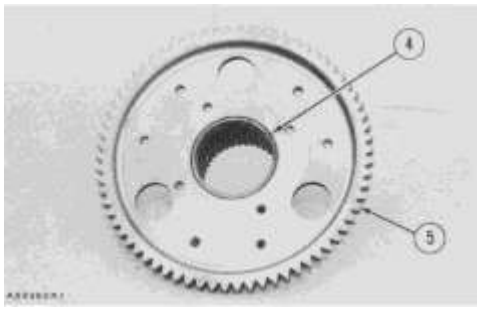


4. Lower the temperature of bearing cups (2) and install them in the wheel assembly.



5. Install brake disc (3) on the wheel assembly and tighten the bolts to a torque of 195 ± 20 lb.ft. (265 ± 25 N·m).

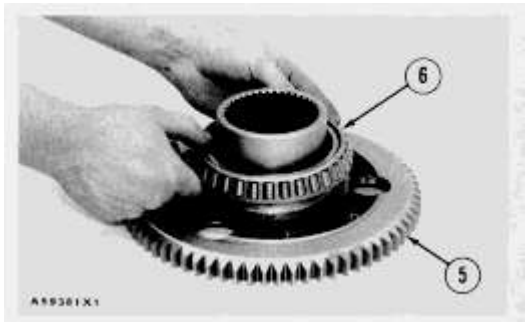
6. Install the other half of the Duo-Cone floating seal in the wheel assembly with tool (A).

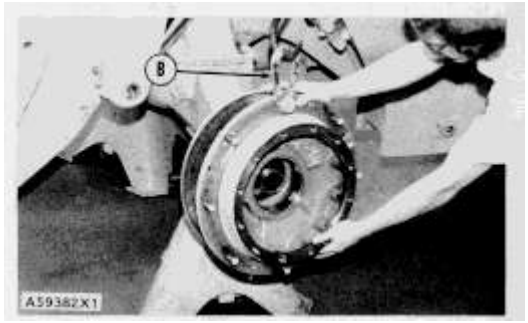


7. Lower the temperature of bushing (4) and install it in the hub assembly (5).

8. Install the outer bearing cone (6) on hub assembly (5) as shown.

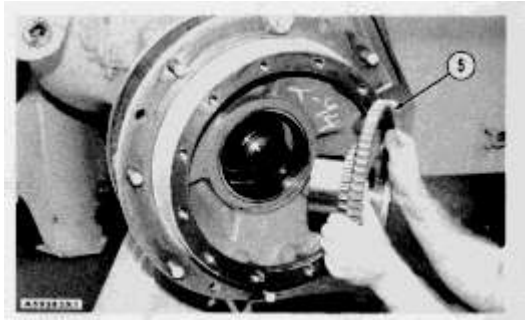
9. Fasten a hoist to the wheel assembly with tool (B). Put the wheel assembly in position on the spindle.



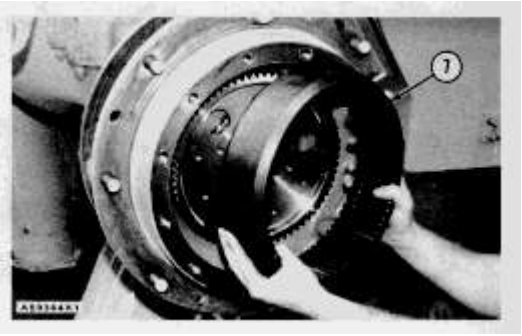


WARNING

Do not remove the hoist and tool (B) until the nut that holds the wheel assembly in position is installed.

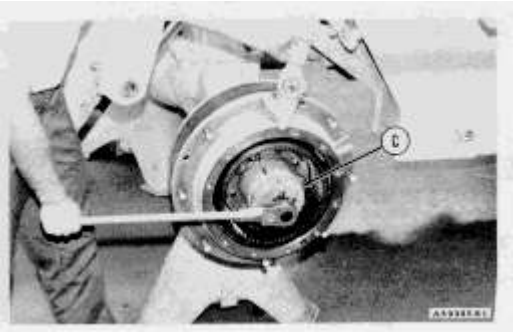


10. Install hub assembly (5) on the spindle.



11. Install ring gear (7) and the plates, bolts and locks that hold it to the hub assembly.

12. Install the nut on the spindle.



13. Tighten the nut with tool (C) while the wheel is turned with an 8 in. (20.3 cm) long lb. in. (N·m) 9S7354 Torque Wrench. The torque must be 75 ± 25 lb.in. (8.5 ± 2.8 N·m). For other lb.in. torque wrenches, the correct torque indication can be found with this formula:

$$C = \frac{A \times T}{A + B}$$

"C" is the torque wrench reading.

"A" is the length of the torque wrench.

"B" is the distance from the center of the wheel to the wheel stud.

"T" is torque on bearings [T = 160 ± 50 lb.in. (18.1 ± 5.7 N·m)].

NOTE: The torque wrench must be installed on wheel nut so it is in line with the center of the wheel as shown.

14. Turn wheel slowly at a constant speed for one or two turns to check torque reading after adjustment has been made.

15. Tighten the nut more if needed to get the groove (slot) in alignment with the bolt hole. Install the bolts and lockwire.

end by:

a) install final drives

b) install brake head assemblies

c) install tractor rims and tires

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