



Service Repair Manual

Models

938F Wheel Loader

Product: WHEEL LOADER

Model: 938F WHEEL LOADER 7SN

Configuration: 938F Wheel Loader 7SN00001-UP (MACHINE) POWERED BY 3116 Engine

Disassembly and Assembly 938F WHEEL LOADER POWER TRAIN

Media Number -SEN6706-04

Publication Date -01/08/2004

Date Updated -26/10/2004

SEN67060026

Torque Converter

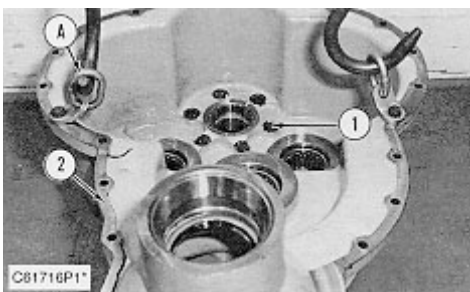
SMCS - 3101-015; 3101-016; 3150-015; 3150-016

Disassemble Torque Converter

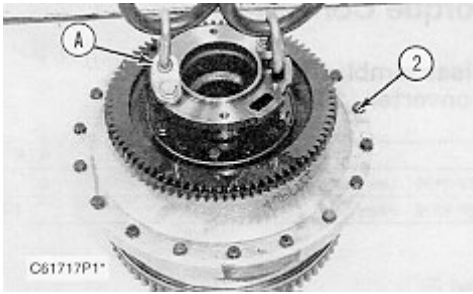
Tools Needed		A	B
6V-2156	Link Bracket	4	
2P-8312	Pliers		1

Start By:

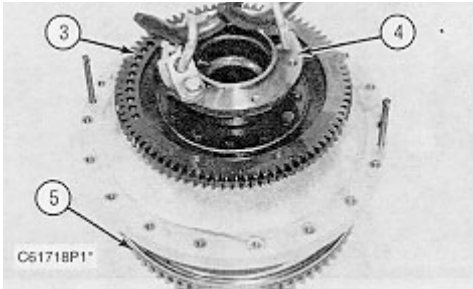
- a. remove transmission and torque converter
- b. separation of transmission from torque converter



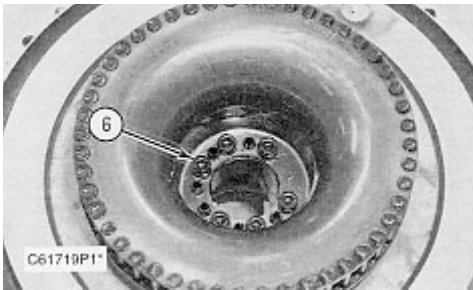
1. Install Tool (A) as shown.
2. Remove six bolts (1).
3. Lift transmission cover (2) straight up and off the torque converter. The weight of the transmission cover is 150 kg (330 lb).



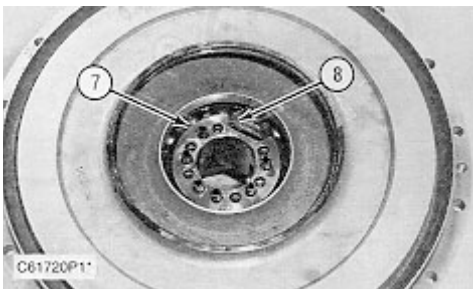
4. Install Tool (A) as shown.
5. Remove eighteen bolts (2) and washers.



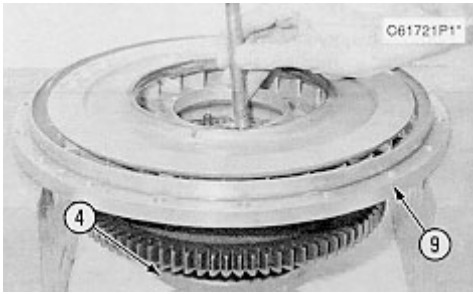
6. Install two forcing screws as shown.
7. Separate driver gear (3) and stator carrier (4) from rotating housing (5).



8. Remove six socket head bolts (6).

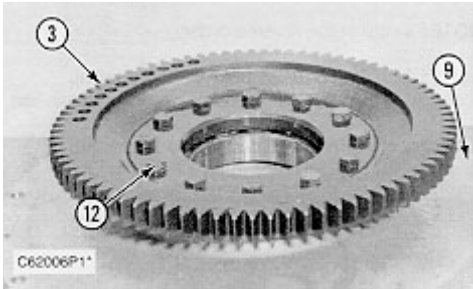


9. Remove two clamp plates (7).
10. Use Tool (B) to remove retaining ring (8).



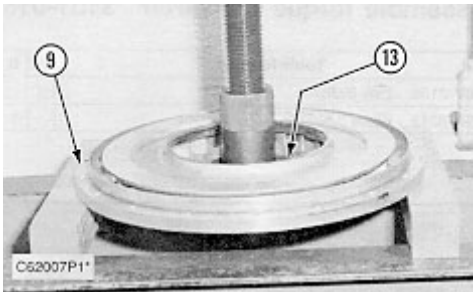
11. Carefully tap stator carrier (4) from converter impeller (9).

12. Check seal ring (11) for damage or wear and replace if necessary.

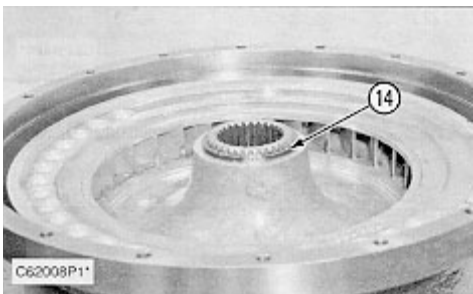


13. Remove twelve bolts (12).

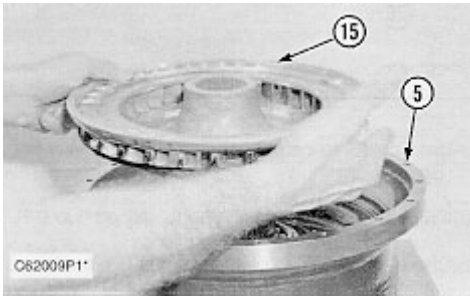
14. Remove drive gear (3) from converter impeller (9).



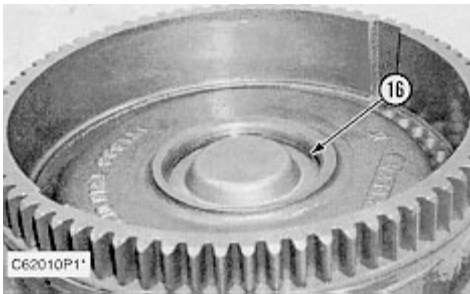
15. Use a suitable press to remove ball bearing from the converter impeller (9).



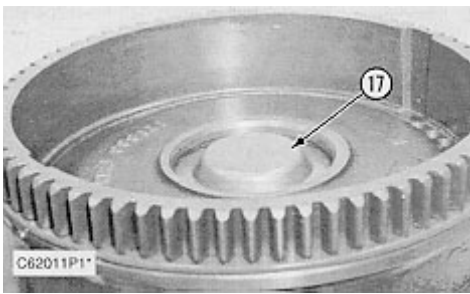
16. Use Tool (B) to remove retaining ring (14).



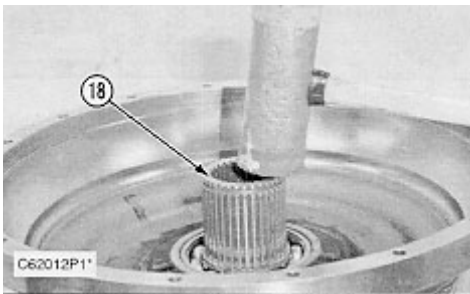
17. Lift converter turbine (15) from rotating housing (5).



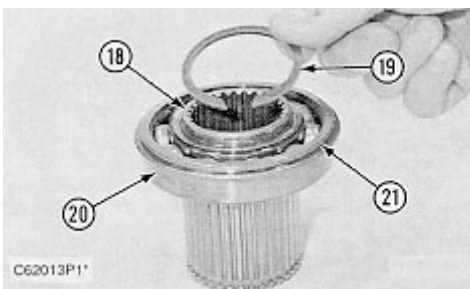
18. Remove rear bearing lock (16).



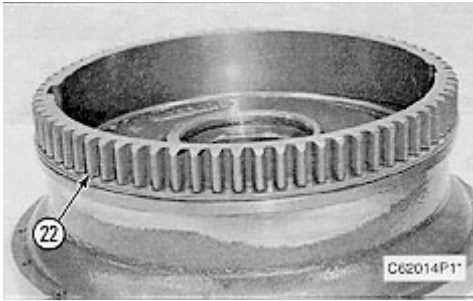
19. Remove end cover (17).



20. Turn the rotating housing over and use a soft hammer to tap splined hub and ball bearing (18) out of the housing.



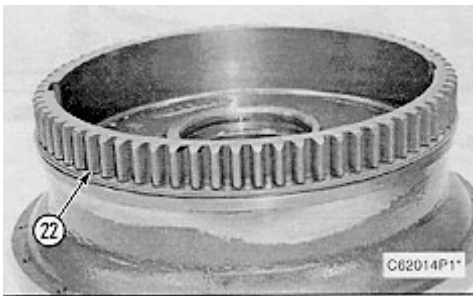
21. Use Tool (B) to remove snap ring (19) from splined hub (18).
22. If necessary, remove ball bearing from splined hub.
23. Check the condition of locating ring (21) on the outside diameter of ball bearing (20) and replace if necessary.



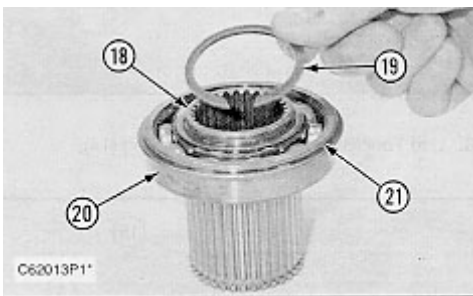
24. Check oil dam or "D" ring (22) for damage or wear and replace if necessary.

Assemble Torque Converter

Tools Needed		A	B
6V-2156	Link Bracket	4	
2P-8312	Pliers		1

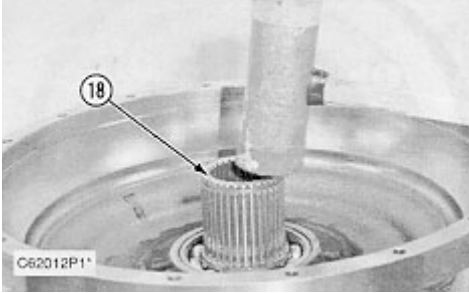


1. Check oil dam or "D" ring (22) for damage or wear and replace if necessary.

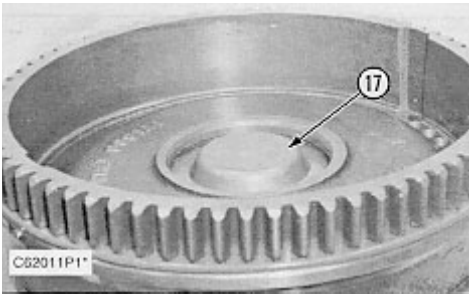


2. Use Tool (B) to install snap ring (19) to splined hub (18).
3. If removed, install bearing (20) to splined hub (18).

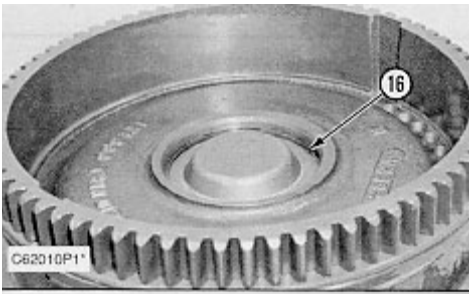
4. Check the condition of locating ring (21) on the outside diameter of ball bearing (20) and replace if necessary.



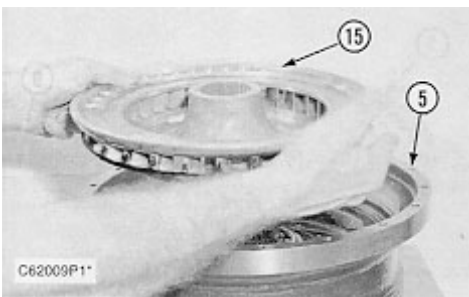
5. Turn the rotating housing over and assemble splined hub and bearing (18) to the housing.



6. Install end cover (17).



7. Install rear bearing lock (16).



8. Assemble converter turbine (15) to rotating housing (5).

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