



Service Repair Manual

Models

970F WHEEL LOADER

Product: WHEEL LOADER

Model: 970F WHEEL LOADER 7SK

Configuration: 970F WHEEL LOADER 7SK00001-00223 (MACHINE) POWERED BY 3306 ENGINE

Disassembly and Assembly

SUPPLEMENT FOR WHEEL LOADERS & INTEGRATED TOOLCARRIERS - LIM

Media Number -SEN5785-00

Publication Date -16/07/1997

Date Updated -11/02/2011

SEN57850006

Limited Slip Differential (950F & 960F)

SMCS - 3263-015; 3263-016

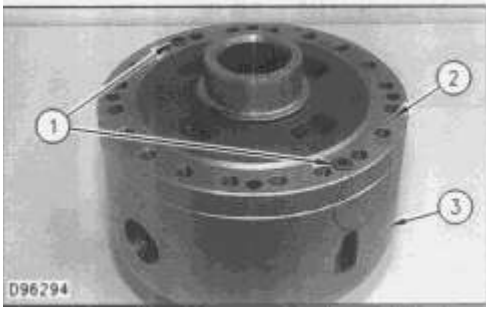
Disassemble Limited Slip Differential (950F & 960F)

Tools Needed		A	B
1U-9895	Cross Block	1	
1U-5477	Ring	1	
1P-0526	Plate (Part of 1P-0520 Driver Gp.)	1	
7X-2556	Bolt (M16 X 2.0 X 100)	1	
9X-8257	Washer (M16)	1	
8T-4132	Nut (M16 X 2.0)	1	
7X-2546	Bolt (M12 X 1.75 X 180)	2	
8T-4121	Washer (M10)	2	
8T-4223	Washer (M12)	2	
9X-8257	Washer (M16)	2	
8T-5096	Dial Indicator Group		1

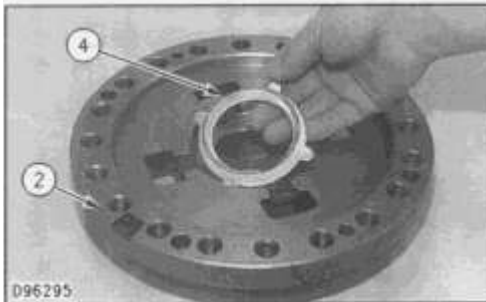
Start By:

a. remove differential

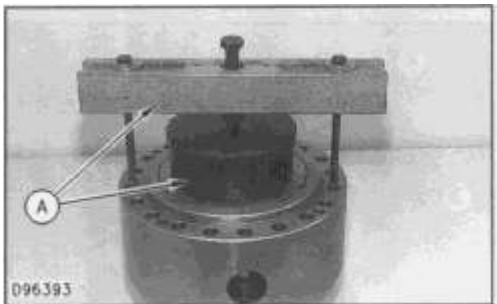
NOTE: The following procedure is for the disassembly of TRACTECH INC. Limited Slip Differentials.



1. Remove two bolts (1).
2. Remove case cover (2) from case housing (3).

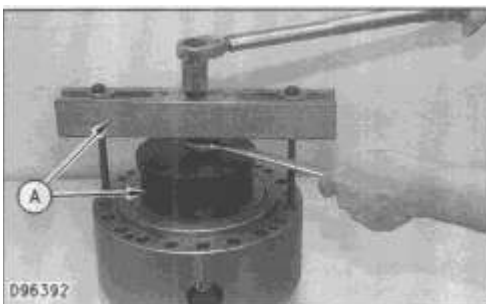


3. Invert case cover (2) and remove thrust washer (4).
4. Measure the end play gap, as follows:

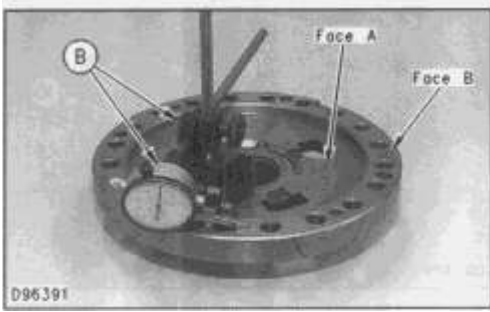


- a. Install Tooling (A) on the differential assembly, as shown.

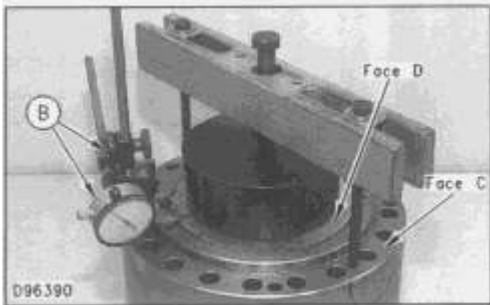
NOTE: The center pusher bolt of Tooling (A) must have **M16 × 2.0** thread to apply the proper preload on the disc packs.



- b. Tighten the center bolt of Tooling (A) to a torque of **27 N·m (20 lb ft)** to apply **900 kg (2000 lb)** of preload on the disc packs.

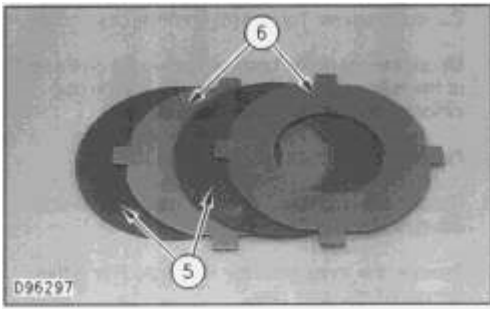


- c. Mount the magnetic base of Tooling (B) on **Face A** of case cover (2).
- d. Zero the dial indicator on **Face B**, as shown.

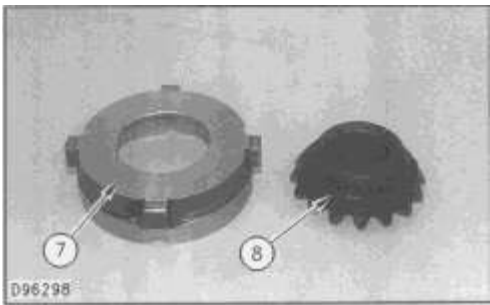
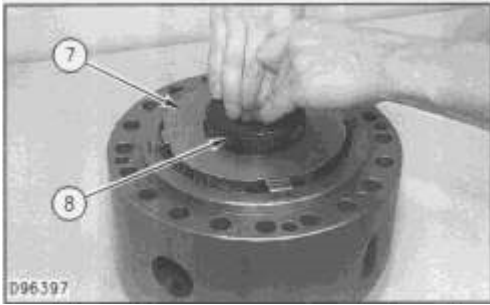


- e. Carefully remove Tooling (B) from the case cover.
- f. Mount the magnetic base of Tooling (B) on **Face C** of the differential case housing. Touch the dial indicator on the disc pack **Face D**.
- g. Record the indicator reading.
- h. Record two additional indicator readings from different areas of **Face D**.
- i. Average the three indicator readings. This is the measured end play gap.
- j. If the end play gap in Step 4i was greater than **0.81 mm (.032 in)**, replacement of the existing disc packs is necessary.

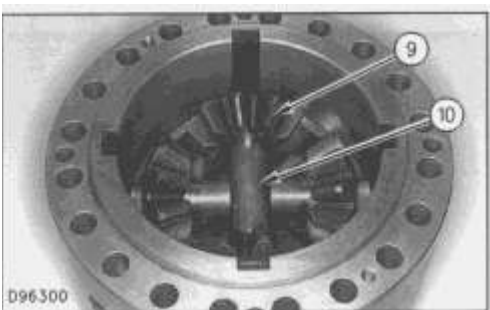




5. Remove the disc pack from the case housing. The disc pack consists of two friction discs (5) and two plates (6).



5. Remove actuator housing (7) and gear (8) from the case housing, as shown.



6. Remove pinion shaft (10) and two pinion gears (9).

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