



# Service Repair Manual

## **Models**

924G and 924Gz Wheel Loader

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Product: WHEEL LOADER

Model: 924G WHEEL LOADER 3PZ

Configuration: 924G 924Gz Wheel Loader 3PZ00001-01552 (MACHINE) POWERED BY 3056 Engine

## Disassembly and Assembly 924G and 924GZ Wheel Loaders Power Train

Media Number -REN3506-05

Publication Date -01/05/2004

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i02055589

# Power Shift Transmission - Assemble

SMCS - 3030-016

## Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1P-2420	Transmission Repair Stand	1
B	1U-9759	Jack Stand	1
C	6V-2156	Link Bracket	2
D	4C-6136	Lifting Bracket	1
E	4C-6399	Spring Compressor	1
F	FT-2343	Plexiglass Cover	1
G	4C-6143	Clutch Piston Installer	1
H	4C-3652	Spring Compressor	1
J	4C-6137	Bearing Installer	1
	4C-6142	Spacer	1
	1P-531	Handle	1
K	4C-6402	Plug Installer	1
L	5P-3413	Pipe Sealant	1
M	9S-3263	Thread Lock Compound	1
N	1U-8846	Gasket Sealant	1

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**Note:** Cleanliness is an important factor. Before assembly, all parts should be thoroughly cleaned in cleaning fluid. Allow the parts to air dry. Wiping cloths or rags should not be used to dry parts. Lint may be deposited on the parts which may cause later trouble. Inspect all parts. If any parts are worn or damaged, use new parts for replacement.



Illustration 1

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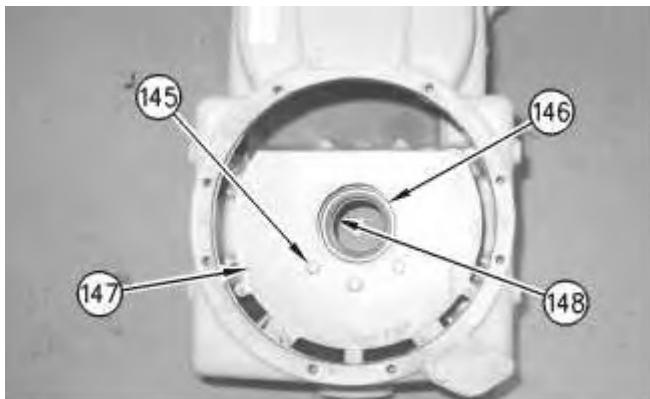
1. Install gear (152) and ring (151). Heat bearing (150) to a temperature of 135 °C (275 °F). Install bearing (150).



Illustration 2

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2. Heat bearing (149) to a temperature of 135 °C (275 °F). Install bearing (149).

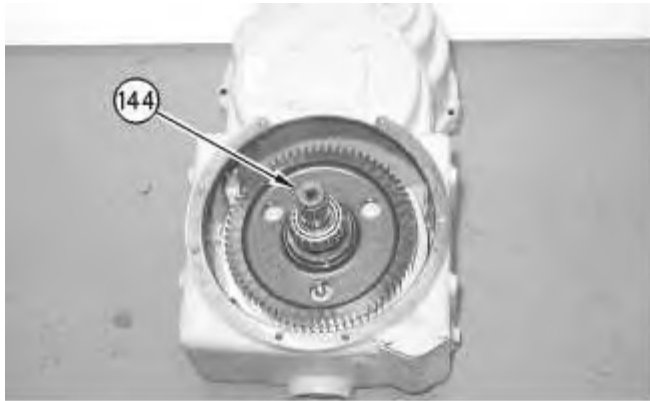


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Illustration 3

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3. Apply Tooling (L) to the seal bore.
4. Install lip seal (148). Lubricate the sealing lip with the lubricant that is being used.
5. Lower the temperature of bearing cup (146). Install bearing cup (146).
6. Use bolts (145) in order to install shield assembly (147). The torque for bolts (145) is  $55 \pm 10 \text{ N}\cdot\text{m}$  ( $40 \pm 10 \text{ lb ft}$ ).

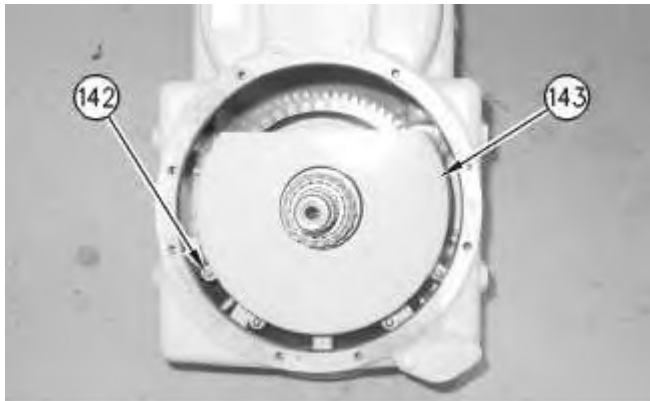


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Illustration 4

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7. Install the output shaft and gear (144).



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Illustration 5

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8. Use nuts (142) in order to install cover (143). The torque for nuts (142) is  $9 \pm 1 \text{ N}\cdot\text{m}$  ( $6 \pm 1 \text{ lb ft}$ ).
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Illustration 6

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9. Install lip type seal (141). Lubricate the sealing lip with the lubricant that is being used.
10. Lower the temperature of bearing cup (140). Install bearing cup (140).
11. Install seal (139).

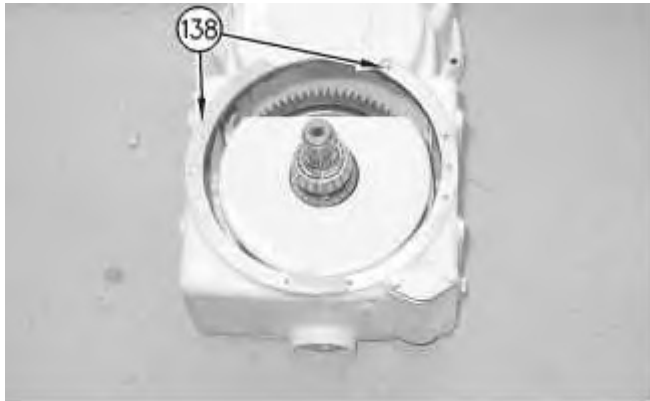
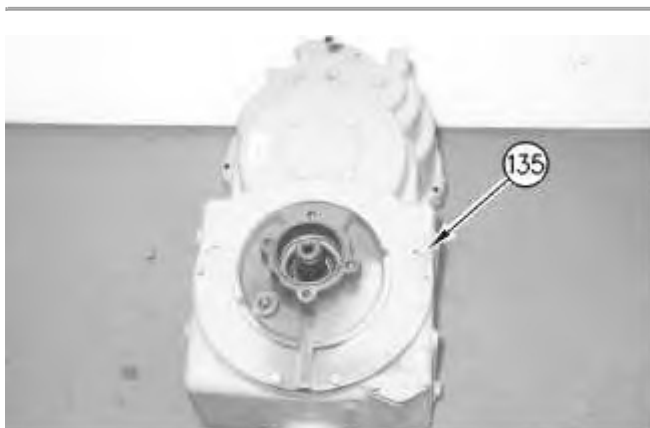


Illustration 7

g00655206

12. Install shims (138). Use the shims in order to get 0.06 mm (0.002 inch) to 0.13 mm (0.005 inch) end play on the output shaft.

**Note:** Lubricate the bore of the housing with the lubricant that is being used.



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