

Product: WHEEL LOADER

Model: 950F WHEEL LOADER 4DJ

Configuration: 950F SERIES II WHEEL LOADER 4DJ02865-03960 (MACHINE)

Disassembly and Assembly 3114, 3116 and 3126 MUI Engine Governors

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Governor (Type IV) - Disassemble

SMCS - 1264-015

Disassembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1U-7307	Governor Repair Fixture ⁽¹⁾	1
B	1P-1855	Retaining Ring Pliers	1
C	1P-1857	Retaining Ring Pliers	1
D	1U-7606	Servo Block ⁽¹⁾	1
E	1U-7277	Pin Punch	1
F	1U-7635	Clevis Driver ⁽¹⁾	1

⁽¹⁾ Part of former 1U-9088 Governor Tool Group

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.

Refer to Special Publication, NENG2500, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

Note: Inspect all parts of the governor upon disassembly. For information on the reusability of components in the governor, refer to the Guideline For Reusable Parts And Salvage Operations, SEBF8434, "3100 Governor Inspection and General Information for Mechanical Governor Groups Used in 3114, 3116, and 3126 Engines Equipped with Mechanical Unit Injectors (MUI)". For information on cleaning the components in the governor, refer to the The Cleaning Guide, SEBF8354, "Equipment And Chemical Recommendations Reference Manual".

Note: Refer to Chart A "Parts to be Replaced During Rebuild" in Guideline For Reusable Parts And Salvage Operations, SEBF8434 for a list of components that need to be replaced during a governor rebuild. It is not necessary to replace the components in Chart A "Parts to be Replaced During Rebuild" if the governor is in the shop for a bench test or for minor repair.

Note: Refer to Chart B "Parts Replacement Chart" in Guideline For Reusable Parts And Salvage Operations, SEBF8434 for a list of components that need to be replaced when the servo assembly is serviced.

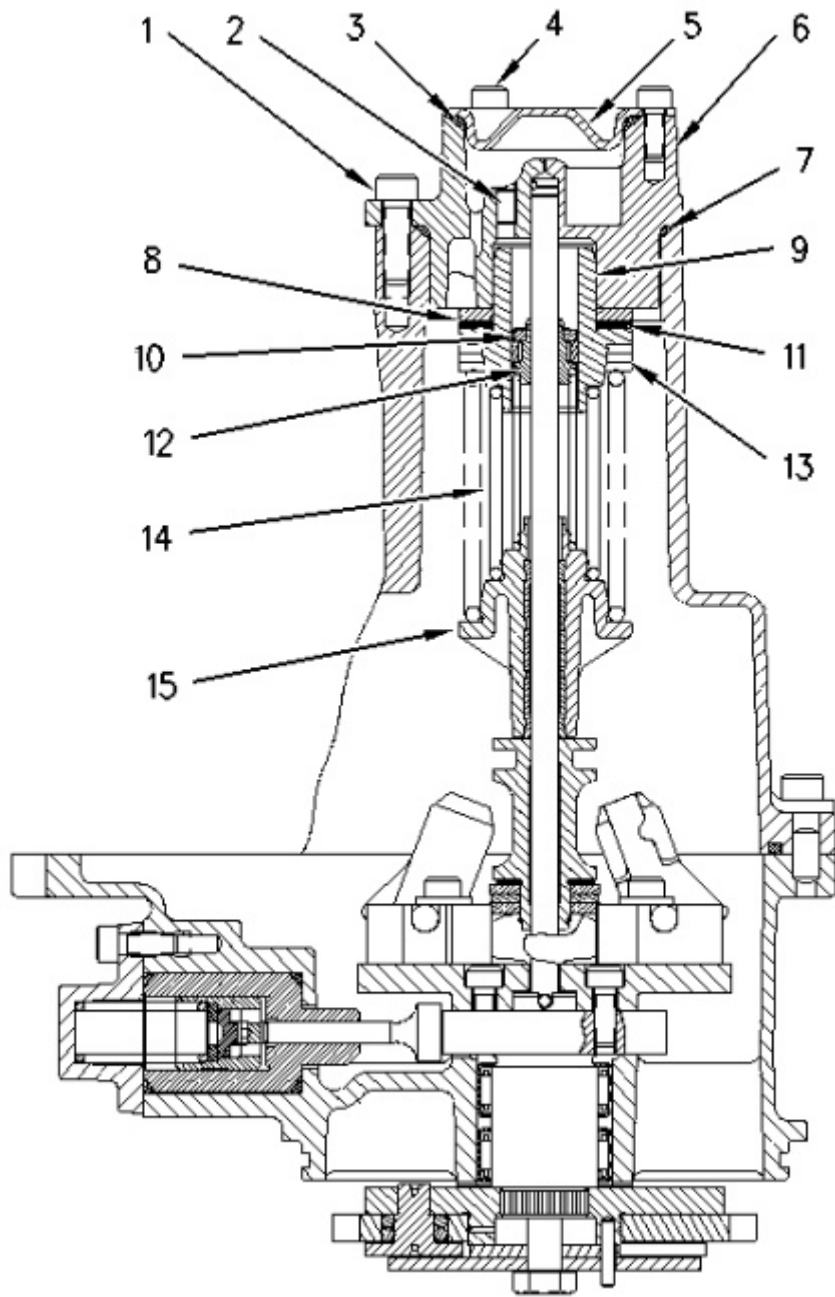


Illustration 1

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Typical Governor

- (1) Bolt
- (2) Orifice for the dashpot
- (3) O-ring seal
- (4) Bolt
- (5) Cover
- (6) Cover assembly
- (7) O-ring seal

- (8) Shims
- (9) Rear spring seat
- (10) Retaining ring
- (11) Spacer
- (12) Piston assembly for the dashpot
- (13) Shims for the high idle governor (if equipped)
- (14) Spring pair
- (15) Spring seat assembly

1. Mount the drive gear end of the governor on the **1U-7307** Governor Repair Fixture (Tool (A)).

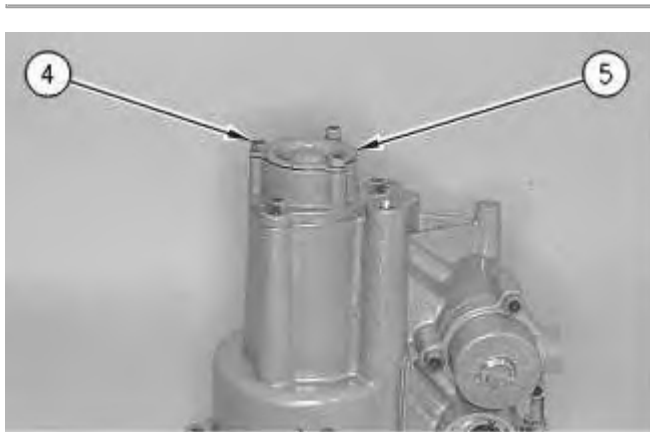


Illustration 2

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2. Remove three bolts (4) .
3. Remove cover (5) .



Illustration 3

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4. Remove O-ring seal (3) from cover (5). Check the O-ring seal for wear or damage. If the O-ring seal is worn or damaged, use a new part for replacement.

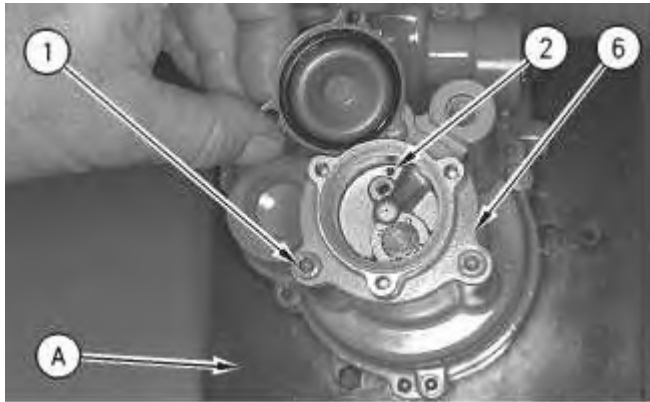


Illustration 4

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5. Ensure that orifice (2) for the dashpot is not plugged. Also ensure that orifice (2) is tight in the casting.

Note: The orifice for the dashpot may be drilled directly into the governor housing or the orifice may be a fitting that is staked into the governor housing. Ensure that all orifice fittings are staked into the governor housing before reassembly.

! WARNING

Personal injury can result from being struck by parts propelled by a released spring force.

Make sure to wear all necessary protective equipment.

Follow the recommended procedure and use all recommended tooling to release the spring force.

6. Use the following procedure in order to remove cover assembly (6) .
 - a. Hold cover assembly (6) in position and slowly loosen bolts (1) in order to release the spring force.
 - b. Remove three bolts (1) from the cover assembly.
 - c. Remove cover assembly (6) .
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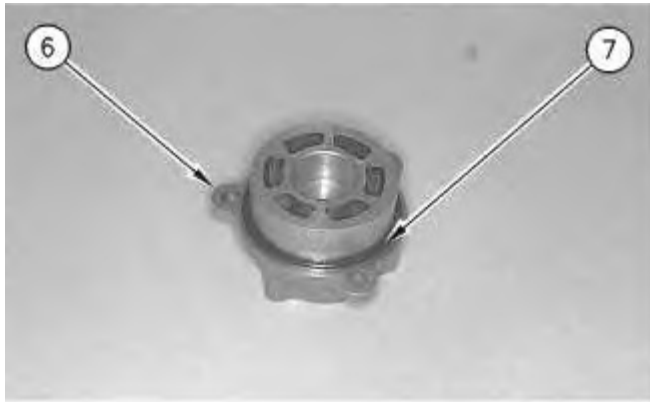


Illustration 5

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7. Remove O-ring seal (7) from cover assembly (6). Inspect the O-ring seal for wear or damage. If the O-ring seal is worn or damaged, use a new part for replacement.

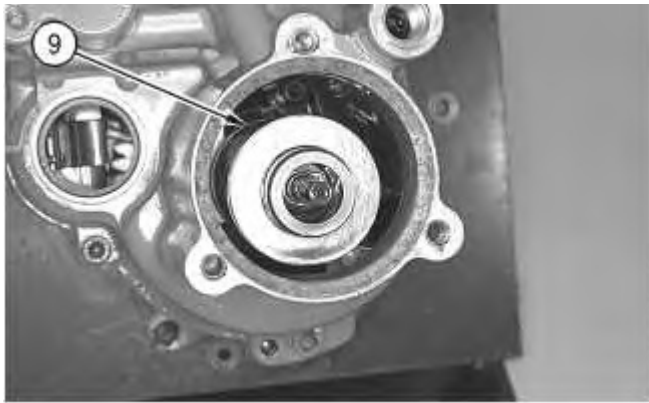


Illustration 6

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8. Remove governor spring seat (9) .

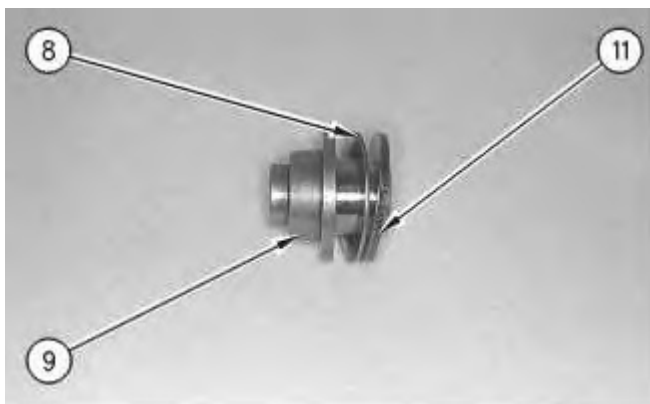


Illustration 7

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