



# Service Repair Manual

## **Models**

D20D and D250D

ARTICULATED TRUCK

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Product: ARTICULATED TRUCK

Model: D20D ARTICULATED TRUCK 9MG

Configuration: D20D & D250D ARTICULATED TRUCK 9MG00001-UP (MACHINE) POWERED BY 3116 ENGINE

## Disassembly and Assembly 3114, 3116 and 3126 MUI Engine Governors

Media Number -SEN6454-05

Publication Date -01/02/2002

Date Updated -01/03/2002

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## Governor (Type II) - Disassemble

SMCS - 1264-015

## Disassembly Procedure

Table 1

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

<sup>(1)</sup> Part of former 1U-9088 Governor Tool Group

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### NOTICE

**Keep all parts clean from contaminants.**

**Contaminants may cause rapid wear and shortened component life.**

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### 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.**

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**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 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:** Early Type II Governors had limited production until 1991. The early Type II Governors may be inspected and perhaps reconditioned. However, some of the internal components are no longer serviced or the internal components may only be serviced by larger assemblies. When you recondition a Type II Governor, it may be necessary to replace the governor. If extensive repair work is necessary, a Type II Governor can be replaced with a Type IV Governor.

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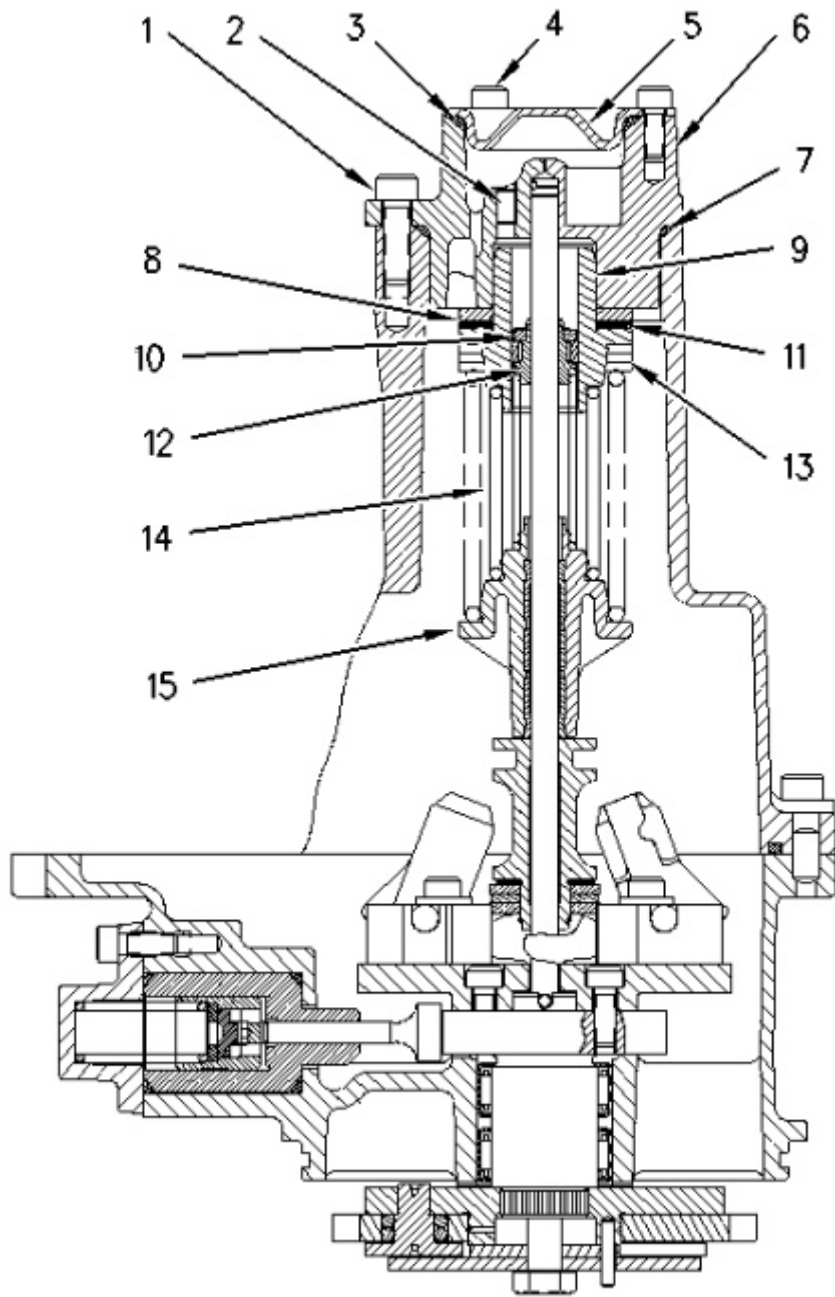


Illustration 1

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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)).

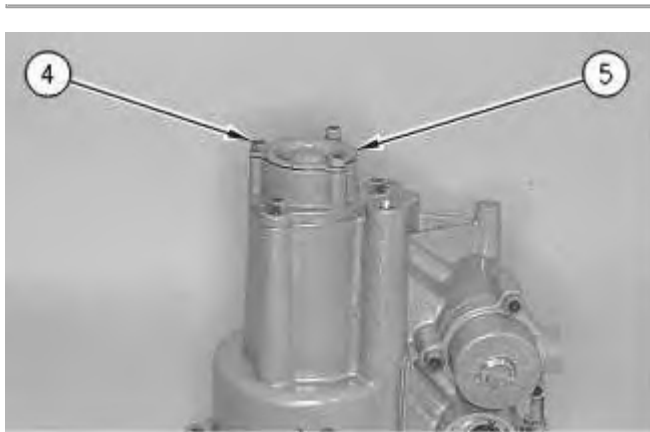


Illustration 2

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



Illustration 3

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