



# Service Repair Manual

## **Models**

214B and 214B FT  
EXCAVATOR

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Product: EXCAVATOR

Model: 214B EXCAVATOR 4CF

Configuration: 214B & 214BFT EXCAVATORS WHEEL TYPE 4CF00001-UP (MACHINE) POWERED BY 3116 ENGINE

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

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i01096573

## Governor (Type IV) - Assemble

SMCS - 1264-016

## Assembly Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	1U-7307	Governor Repair Fixture <sup>(1)</sup>	1
B	1U-7635	Clevis Driver <sup>(1)</sup>	1
C	1U-7606	Servo Block <sup>(1)</sup>	1
D	1U-7277	Pin Punch	1
E	1P-1857	Retaining Ring Pliers	1
F	1P-1855	Retaining Ring Pliers	1
G	1U-7310	Torque Adjusting Tool <sup>(1)</sup>	1
H	1U-7311	Wrench <sup>(1)</sup>	1
I	1U-7309	Shim Adjustment Tool <sup>(1)</sup>	1
J	1U-7313	Gauge Block <sup>(1)</sup>	1
K	1U-7312	Calibration Plate <sup>(1)</sup>	1
L	1U-7314	Weight <sup>(1)</sup>	1
M	1U-7308	Shim Adjustment Tool <sup>(1)</sup>	1

<sup>(1)</sup> Part of the former 1U-9088 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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**Note:** Inspect all parts of the governor upon assembly. 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.

**Note:** Put clean engine oil on all parts before assembly. Ensure that all of the oil passages in the governor are free of obstructions.

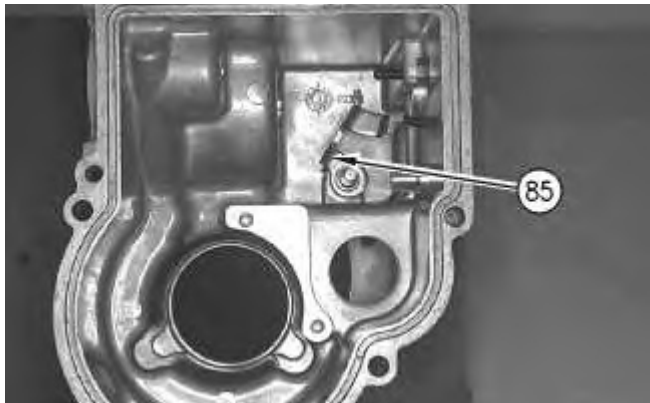


Illustration 1

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**Note:** Inspect all of the governor parts for wear or for damage. If any of the governor parts are worn or damaged, use new parts for replacement.

1. Install fuel ratio control lever (85) in the governor rear housing.



**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.**

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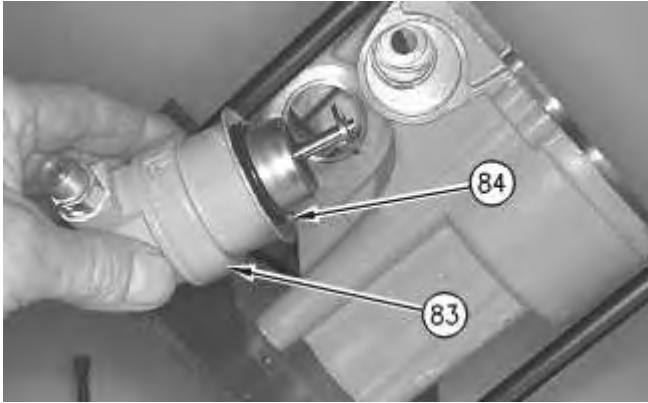


Illustration 2

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2. Install O-ring seal (84) onto fuel ratio control valve (83) .

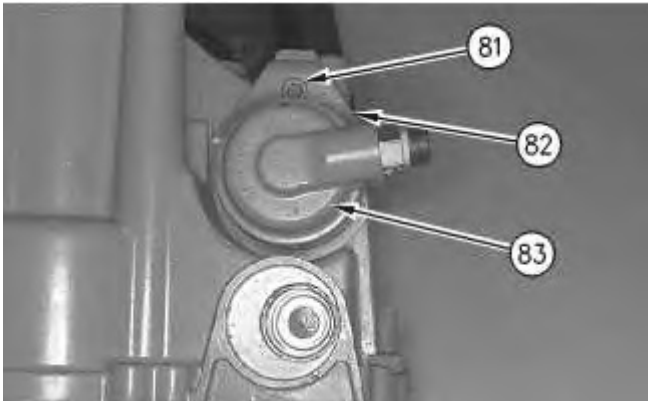


Illustration 3

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3. Install fuel ratio control valve (83) into the governor rear housing. Install bracket (82) and bolt (81) in order to hold fuel ratio control valve (83) in position.
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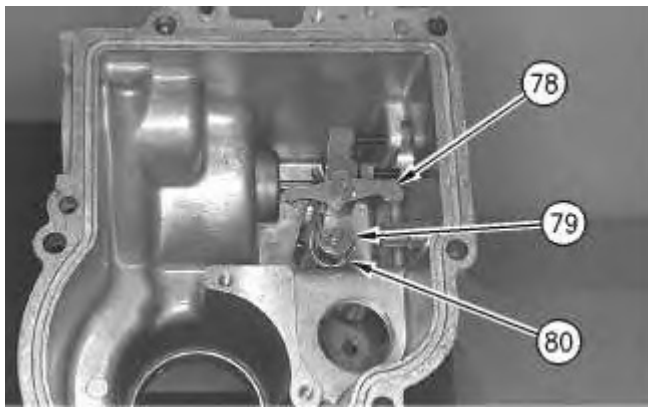


Illustration 4

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4. Install limit lever assembly (78), spring (80) and washer (79). Ensure that the straight end of spring (80) is resting on the aluminum casting.

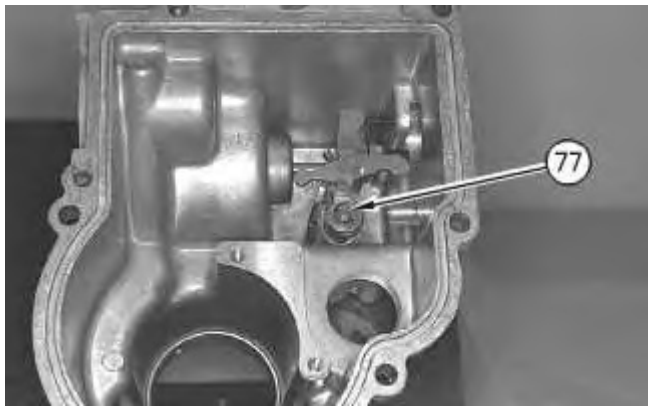


Illustration 5

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5. Install retaining clip (77) .
6. Use the following procedure to assemble the later style of governor output servo assembly.
  - a. Thoroughly clean all parts of the governor output servo assembly.

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