

Product: EXCAVATOR

Model: 325-A EXCAVATOR 8NL

Configuration: 325, 325L TRACK TYPE EXCAVATORS 8NL00001-UP (MACHINE) POWERED BY 3116 ENGINE

## Disassembly and Assembly

### 446 and 446B Backhoe Loaders, Lexion 450 Combine, 3114 and 3116 Engines, IT18F Integrated Toolcarrier, D6M Track-Type Tractor and 928F, 950F and 950G Wheel Loaders

Media Number -SEN3611-18

Publication Date -01/05/2009

Date Updated -27/05/2009

i01928419

## Governor - Install

SMCS - 1264-012

## Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	136-4149	Governor Pliers <sup>(1)</sup>	1
B	128-8827	Pin <sup>(1)</sup>	1
	1U-7523	Pin Pilot <sup>(1)</sup>	1

<sup>(1)</sup> This tool is part of the **128-8822** 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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**Note:** For more information on the governor, refer to Service Manual, SENR6454, "3114, 3116, & 3126 Engine Governors". The Service Manual, SENR6454 requires the use of a **1U-7326** Governor Calibration Bench. For information on reusability of components in the governor, refer to 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)".



Illustration 1

g00673178

1. Apply lubricant to the new O-ring seal (1). Install new O-ring seal (1) in the cylinder head.

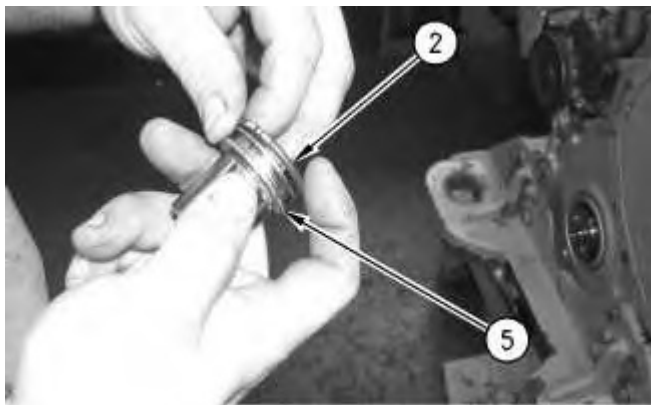


Illustration 2

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2. Apply lubricant to the new O-ring seal (2). Install new O-ring seal (2) on the tube assembly (5).

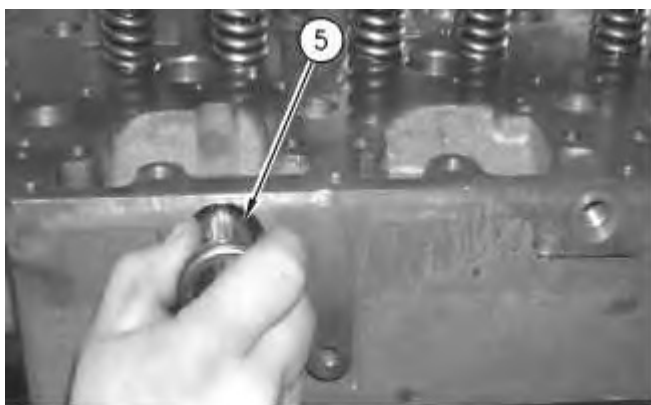


Illustration 3

g00672742

3. Install the O-ring seal and tube assembly (5) in the cylinder head.
-

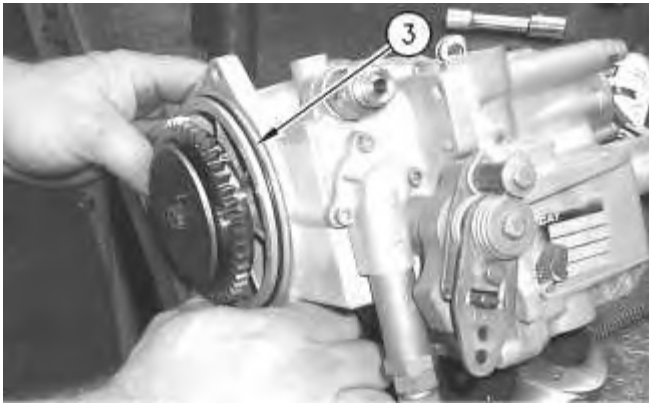


Illustration 4

g00673180

4. Apply lubricant to the new O-ring seal (3). Install new O-ring seal (3) on the governor.



Illustration 5

g00673182

5. Place the governor in position on the engine.

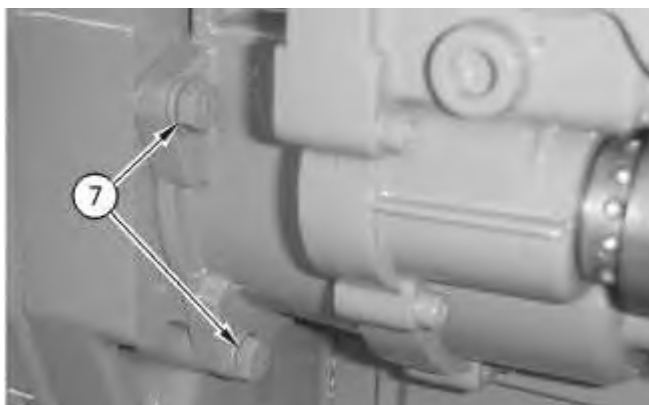


Illustration 6

g00613563

6. Install the washers and bolts (7) that hold the governor in place.

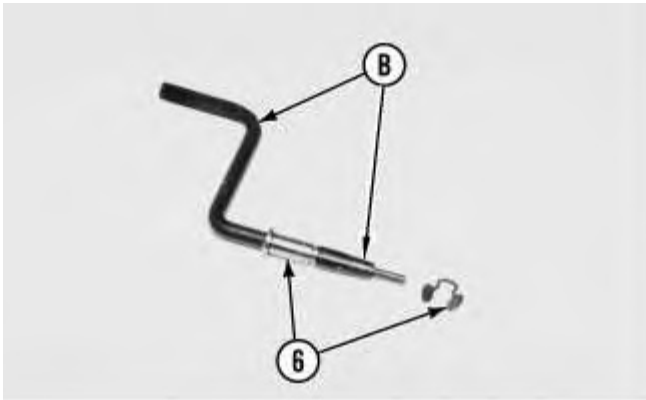


Illustration 7

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7. Install clevis pin (6) in Tooling (B).

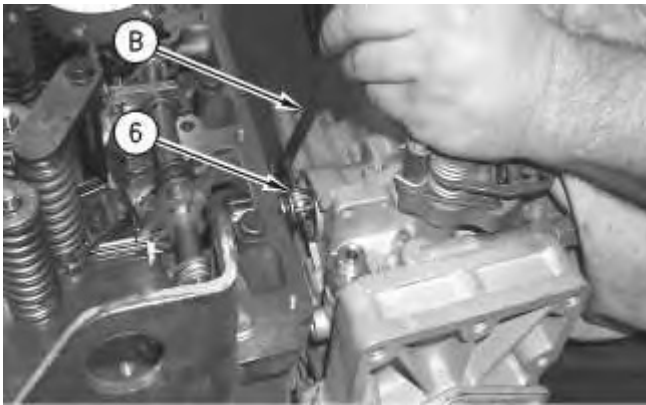
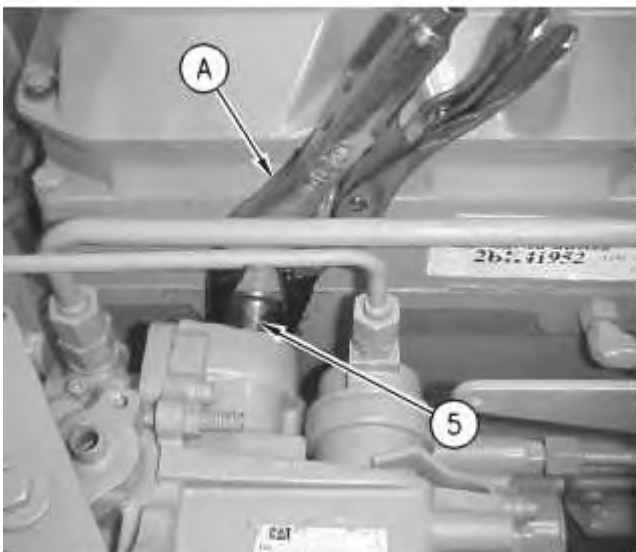


Illustration 8

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8. Use Tooling (B) to install clevis pin (6) and the clip.
9. Check the fuel setting adjustment. Refer to Testing and Adjusting, SENR5118.



10. Use Tooling (A) to slide tube assembly (5) into the governor.

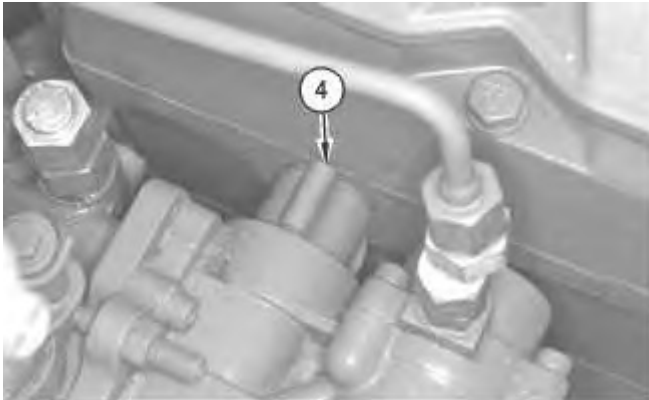


Illustration 10

11. Install clip (4).

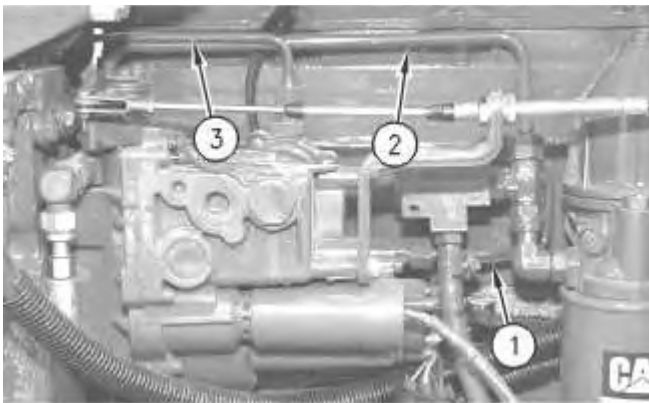


Illustration 11

12. Install oil tube assembly (1). Install tube assembly (2) and tube assembly for fuel ratio control (3), if equipped. Plug and cap all connections.
13. Install the governor control cable.

**End By:**

- a. Install the fuel shutoff solenoid. Refer to Disassembly and Assembly, "Fuel Shutoff Solenoid - Remove and Install".
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Media Number -SEN3611-18

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i01928445

## Fuel Injection Control Linkage - Remove

SMCS - 1298-011

### Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	136-4149	Governor Pliers	1

#### Start By:

- a. Remove the rocker shaft and the pushrods. Refer to Disassembly and Assembly, "Rocker Shaft and Pushrod - Remove".

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### NOTICE

**Keep all parts clean from contaminants.**

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Illustration 1

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1. Remove clip (4). Clip (4) is located between the governor and the cylinder head.

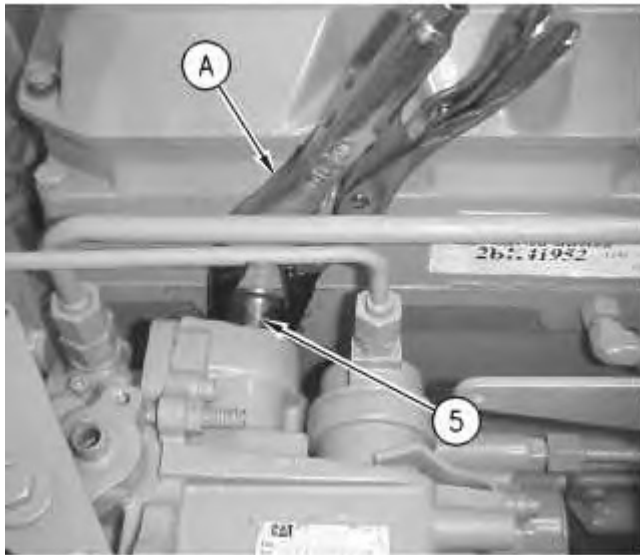


Illustration 2

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2. Use Tooling (A) to slide tube assembly (5) into the cylinder head.

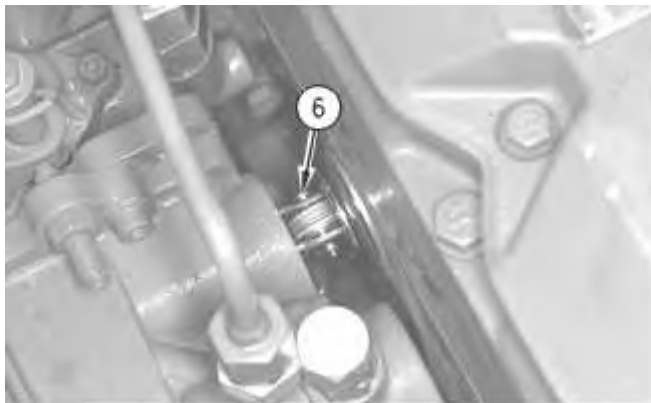


Illustration 3

g00613149

3. Remove the clip and use Tooling (A) to remove the clevis pin (6). Clevis pin (6) connects the governor to the control lever of the fuel injection control linkage.

**Note:** Clevis pin (6) must stay with the governor in order to be adjusted.

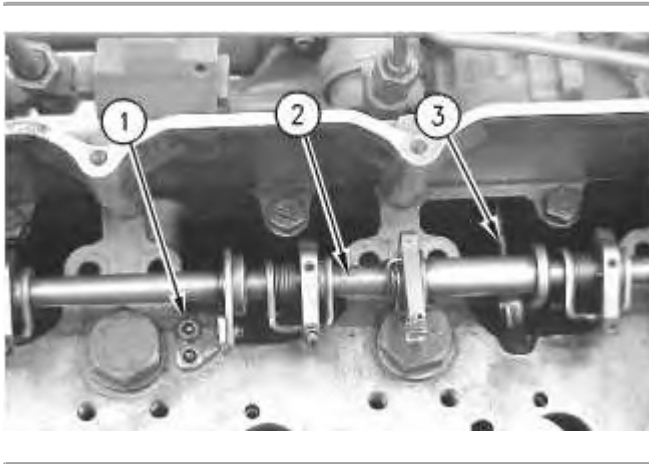


Illustration 4

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4. Remove bolts (1) and remove fuel injection control linkage (2). Control lever (3) connects the fuel injection control linkage (2) to the governor.

**Note:** For information on the inspection procedure for control lever (3), refer to Special Instruction, REHS0601, "Inspection and Modification of the 102-7459 Fuel Injection Control Linkage and the 4P-9048 Fuel Injection Control Linkage".

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