



# Service Repair Manual

## **Models**

# 446 BACKHOE LOADER

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Product: BACKHOE LOADER

Model: 446 BACKHOE LOADER 6XF

Configuration: 446 BACKHOE LOADER 6XF00001-UP (MACHINE) POWERED BY 3114 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

i01928366

# Fuel Shutoff Solenoid - Remove and Install

SMCS - 1259-010

## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	9U-5120	Spanner Wrench <sup>(1)</sup>	1

<sup>(1)</sup> This tool is part of the 128-8822 Fuel System and 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, "Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Cat products.

Dispose of all fluids according to local regulations and mandates.

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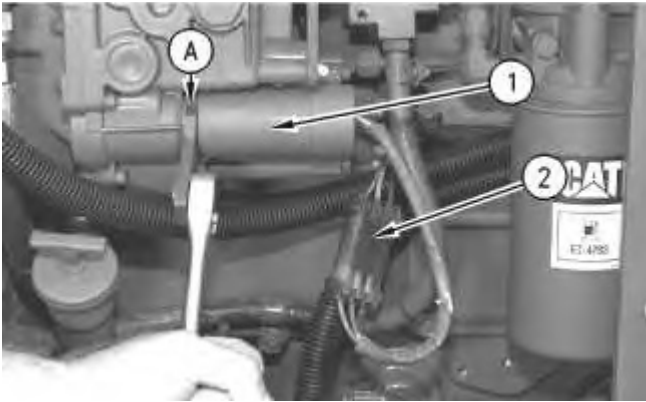


Illustration 1

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1. Disconnect the harness assembly (2) from fuel shutoff solenoid (1).
2. Use Tooling (A) to remove the fuel shutoff solenoid from the governor.
3. Remove the O-ring seal from the shutoff solenoid .

## Installation Procedure

Table 2

Required Tools			
Tool	Part Number	Part Description	Qty
A	9U-5120	Spanner Wrench <sup>(1)</sup>	1

<sup>(1)</sup> This tool is part of the 128-8822 Fuel System and Governor Tool Group.

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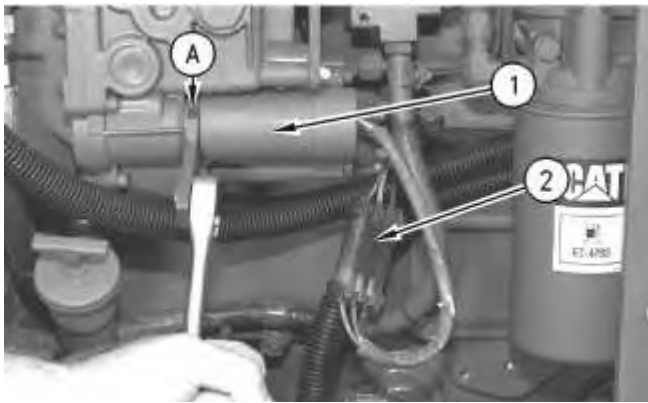


Illustration 2

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1. Inspect the O-ring seal on the fuel shutoff solenoid. If the O-ring seal is worn or damaged, use new parts for replacement.
2. Install the O-ring seal on the fuel shutoff solenoid.
3. Install the fuel shutoff solenoid in the governor. Use Tooling (A) and a suitable torque wrench to tighten the fuel shutoff solenoid to the following torque  $30 \pm 5 \text{ N}\cdot\text{m}$  ( $22 \pm 4 \text{ lb ft}$ ).
4. Connect the harness assembly to the fuel shutoff solenoid.

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Media Number -SEN3611-18

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## Governor - Remove

SMCS - 1264-011

## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	136-4149	Governor Pliers <sup>(1)</sup>	1

<sup>(1)</sup> This tool is part of the 128-8822 Fuel System and Governor Tool Group.

### Start By:

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

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