



# Service Repair Manual

## **Models**

301.5 301.6 301.8

Mini Hydraulic Excavator

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Product: MINI HYD EXCAVATOR

Model: 301.6 MINI HYD EXCAVATOR BDH

Configuration: 301.5 301.6 301.8 Mini Hydraulic Excavator BDH00001-UP (MACHINE) POWERED BY 3003 Engine

## **Disassembly and Assembly**

### **3003, 3013, 3014 and 3024 Engines for Caterpillar Built Machines**

Media Number -SEN5027-05

Publication Date -01/05/2005

Date Updated -16/05/2005

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## **Fuel Shutoff Solenoid - Remove and Install**

SMCS - 1259-010

### **Removal Procedure**

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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:** Disconnect all electrical connections to the fuel shutoff solenoid before proceeding. Mark all connections for later installation.

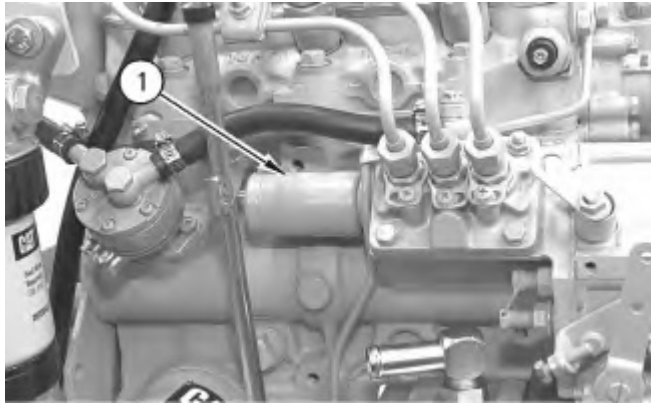


Illustration 1

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1. Remove fuel shutoff solenoid (1) from the governor by rotating fuel shutoff solenoid (1) in a counterclockwise direction.
2. Remove the O-ring seal from fuel shutoff solenoid (1). Inspect the O-ring seal for wear or for damage. If the O-ring seal is worn or damaged, use a new part for replacement.

## Installation Procedure

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### NOTICE

**Keep all parts clean from contaminants.**

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

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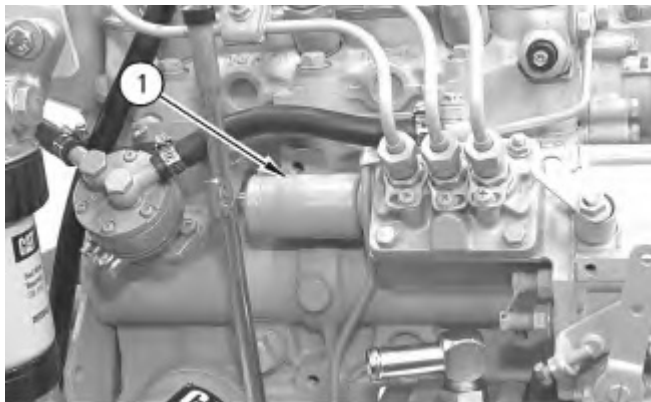


Illustration 2

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1. Install the O-ring seal onto fuel shutoff solenoid (1) .

2. Install fuel shutoff solenoid (1) in the governor by rotating fuel shutoff solenoid (1) in a clockwise direction. Tighten fuel shutoff solenoid (1) to a torque of 17 N·m (12 lb ft).

**Note:** Reconnect all electrical connections to the fuel shutoff solenoid before you operate the engine.

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## **Fuel Injection Pump - Remove**

SMCS - 1251-011

### **Removal Procedure**

#### **Start By:**

- A. Remove the fuel injection lines. Refer to Disassembly and Assembly, "Fuel Injection Lines - Remove and Install".
- B. If necessary, remove the fuel shutoff solenoid. Refer to Disassembly and Assembly, "Fuel Shutoff Solenoid - Remove and Install".

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**Refer to Special Publication, NENG2500, "Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Cat products.**

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