# **CATERPILLAR®**

# Service Repair Manual

## **Models**

5080 FRONT SHOVEL

Model: 5080 FRONT SHOVEL 8SL

Configuration: 5080 Excavator 8SL00001-UP (MACHINE) POWERED BY 3406B Engine

## Disassembly and Assembly 3406C DIESEL ENGINES FOR CATERPILLAR BUILT MACHINES

Media Number -SENR6409-02

Publication Date -01/07/2006

Date Updated -19/05/2015

SENR64090025

## **Fuel Injection Nozzles & Adapters**

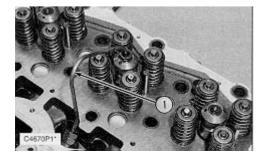
**SMCS -** 1106-010; 1254

### Remove & Install Fuel Injection Nozzles & Adapters

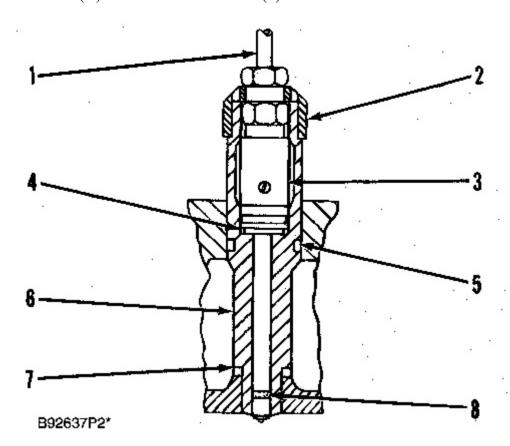
	Tools Needed	Α	В	C	D	E	F
5P0144	Socket	1					
8T3139	Spanner Wrench		1				
8T3198	Tube			1			
8T3199	Screw			1			
6V6983	Adapter			1			
1B4206	Nut			1			2/10
8T3201	Wrench				1		
6V4089	Reamer			ï		1	
6V4979	Carbon Stop Seal Tool*						1

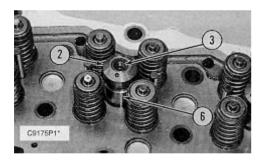
#### Start By:

#### a. remove valve covers



1. Use Tool (A) and disconnect fuel line (1) at each end. Remove the fuel line from the engine.





- **2.** Use Tool (B) and remove retainer (2) from the adapter.
- **3.** Remove the fuel injection nozzles with Tool (C) as follows:
- a. Install the 6V6983 Adapter and the 8T3199 Screw into nozzle assembly (3).
- **b.** Install the **8T3198 Tube** over the **8T3199 Screw**.
- c. Use the 1B4206 Nut on the 8T3199 Screw to pull the fuel injection nozzle (3).
- **4.** Remove compression seal (4) and carbon dam seal (8) from fuel injection nozzle (3).
- **5.** Use Tool (D) and remove adapter (6) from the cylinder head.
- **6.** Remove gasket (7) and seal (5) from adapter (6).

**NOTE:** The following steps are for the installation of the fuel injection nozzles and adapters.

- **7.** Use Tool (E) to clean the bore in adapter (6). Use an open end wrench or tap driver to turn Tool (E).
- **8.** Inspect seal (5) for damage or wear. Replace the seal if necessary.
- **9.** Put washer (7) and seal (5) in position on adapter (6).
- **10.** Put liquid soap in the bores of the cylinder head and on seals (5) in the adapters.
- 11. Put **5P3931** Anti-Seize Compound on the threads of adapter (6) and install the adapter in the cylinder head assembly.
- 12. Use Tool (D) and tighten the adapter to a torque of  $205 \pm 14 \text{ N} \cdot \text{m}$  (150 ± 10 lb ft).

#### **NOTICE**

Make sure the correct compression seal washer (4) is used when the nozzle assembly is installed in the adapter. Only copper washers are to be used with this adapter.

- **13.** Install compression seal washer (4) and use Tool (F) to install carbon dam seal (8) on the fuel injection nozzle.
- **14.** Put fuel injection nozzle (3) in position in the adapter and install retainer (2).
- 15. Use Tool (B) to tighten retainer (2) to a torque of  $48 \pm 7 \text{ N} \cdot \text{m}$  (35 \pm 5 lb ft).
- **16.** Install fuel line (1). Tighten the nuts on the fuel line with Tool (A) to a torque of  $40 \pm 7 \text{ N} \cdot \text{m}$  (30 ± 5 lb ft).

End By:

**a.** install valve covers

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Model: 5080 FRONT SHOVEL 8SL

Configuration: 5080 Excavator 8SL00001-UP (MACHINE) POWERED BY 3406B Engine

## **Disassembly and Assembly**3406C DIESEL ENGINES FOR CATERPILLAR BUILT MACHINES

Media Number -SENR6409-02

Publication Date -01/07/2006

Date Updated -19/05/2015

SENR64090026

### **Cylinder Head Assembly**

**SMCS -** 1100-011; 1100-012

### **Remove Cylinder Head Assembly**

Start By:

- a. remove rocker shaft assemblies and push rods
- **b.** remove water temperature regulator
- c. remove aftercooler housing
- d. remove fuel injection lines
- e. remove exhaust manifold



Typical Example

- **1.** Remove bolts (1) from the alternator bracket.
- **2.** Remove the bolts that hold plate (3) and remove the plate.
- **3.** Disconnect water line (2) from the air compressor.

**NOTE:** Turn the water line tee toward the lifting bracket in order to provide clearance to remove the head bolt.

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