

Product: BACKHOE LOADER

Model: 428C BACKHOE LOADER 2CR

Configuration: 428C Backhoe Loader Side Shift, Parallel Lift 2CR00001-16211 (MACHINE) POWERED BY 3054 Engine

Disassembly and Assembly 3054 Engine for Caterpillar Built Machines

Media Number -SEN6241-13

Publication Date -01/08/2008

Date Updated -04/08/2008

i02108297

Fuel Injection Nozzles - Remove

SMCS - 1254-011

Removal Procedure

Start By:

- a. Remove the fuel injection lines. Refer to Disassembly and Assembly, "Fuel Injection Lines - Remove and Install".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

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 Dealer Service Tool Catalog" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

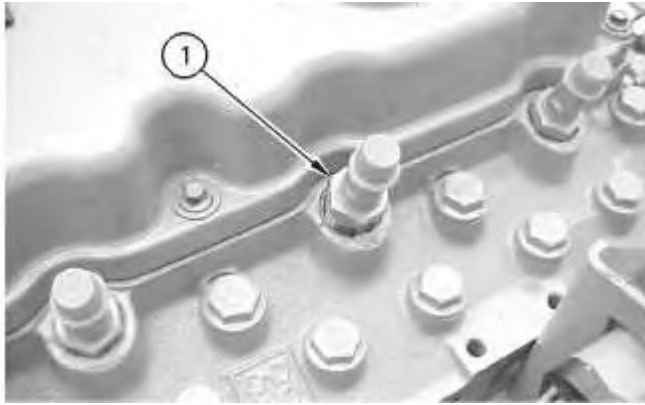


Illustration 1

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1. Loosen threaded nut (1) on the fuel injection nozzle.

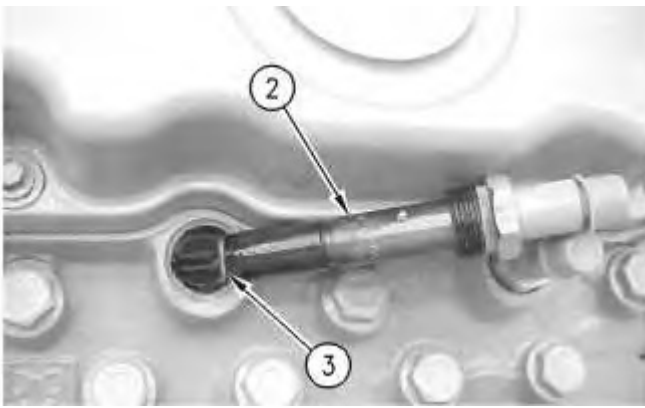


Illustration 2

g00902564

2. Remove fuel injection nozzle (2) from the cylinder block.
3. Remove seat washer (3).

Note: If the original seat washer is not removed, the projection of the fuel injection nozzle will be incorrect when a new seat washer is installed.



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i01760208

Fuel Injection Nozzles - Install

SMCS - 1254-012

Installation Procedure

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

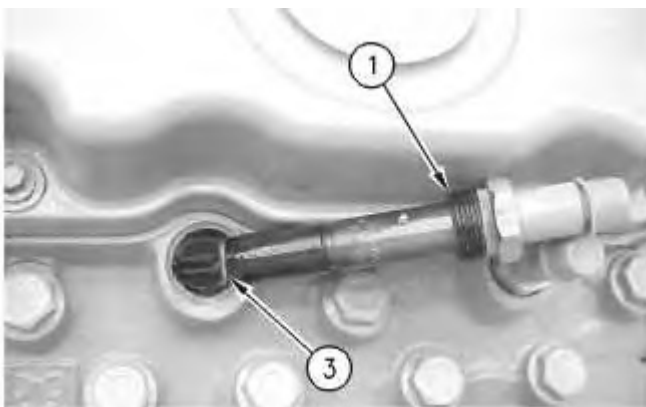


Illustration 1

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1. Thoroughly clean the threads on threaded nut (1) and the cylinder head.
2. Install a new seat washer (3) into the recess in the cylinder head.

Note: If the original seat washer is reused, the projection of the fuel injection nozzle will be incorrect.

3. Put a 2.0 mm (0.08 inch) bead of **4C-5591** Anti-Seize Compound on the first two threads of threaded nut (1).

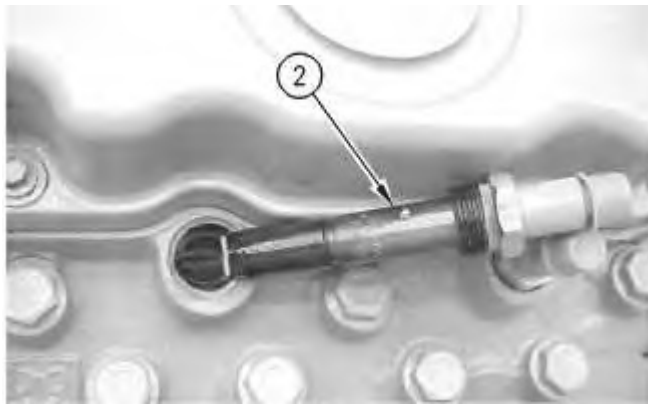


Illustration 2

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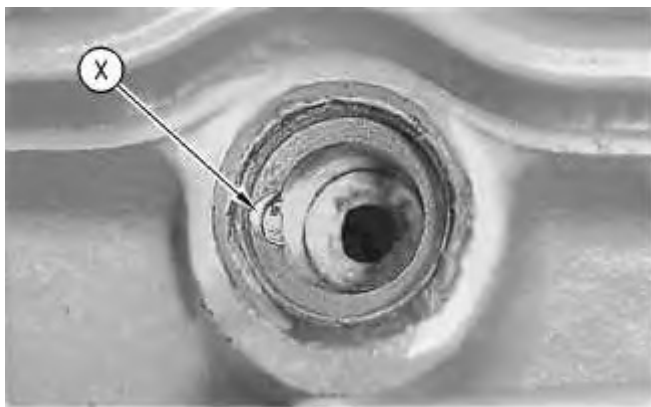


Illustration 3

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4. Put fuel injection nozzle (2) into position in the cylinder head. Make sure that the detent ball in the fuel injection nozzle (2) is aligned correctly with ball Detent (X) in the cylinder head.

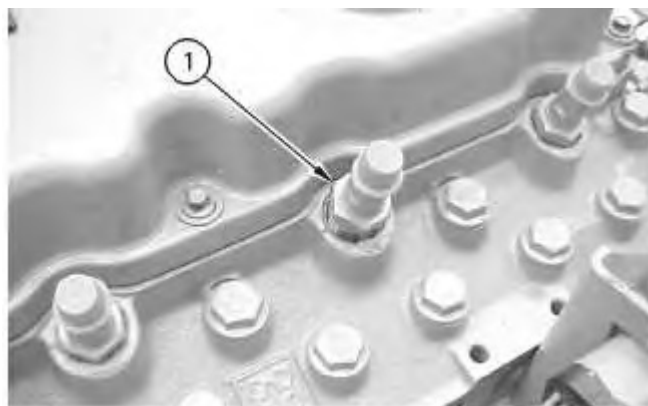


Illustration 4

g00902563

- Carefully tighten threaded nut (1) to a torque of 30 N·m (22 lb ft). Remove any excess Anti-Seize Compound from fuel injection nozzle.

Note: Do not rotate the fuel injection nozzle after installation. The seal which is made by the anti-seize compound may break. A broken seal may allow leakage past the seat of the fuel injection nozzle.

End By:

- Install the fuel injection lines. Refer to Disassembly and Assembly, "Fuel Injection Lines - Remove and Install".

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i01080672

Fuel Injection Nozzles - Install - Type 1 Engines and 9RM Engines

SMCS - 1254-012

Installation Procedure

Note: For a complete description of Type 1 and Type 2 Engines, refer to the Disassembly and Assembly, "Engine Design" topic.

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Dispose of all fluids according to local regulations and mandates.

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