



Service Repair Manual

Models

330B L EXCAVATOR

Product: EXCAVATOR

Model: 330B L EXCAVATOR 1JS

Configuration: 330B L TRACK-TYPE EXCAVATORS /HAMMER ARRANGEMENT/ 1JS00001-UP (MACHINE) POWERED BY 3066 ENGINE

Disassembly and Assembly

3304B and 3306B Engines for Caterpillar Built Machines

Media Number -SEN5598-09

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i01041426

Exhaust Manifold - Remove and Install

SMCS - 1059-010

Removal Procedure

Start By:

- A. Remove the turbocharger. Refer to Disassembly and Assembly, "Turbocharger - Remove".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

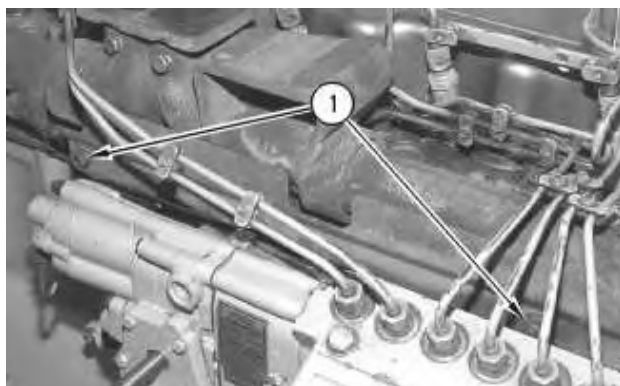


Illustration 1

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1. Remove two nuts (1), the washers and the heat shield from the exhaust manifold.

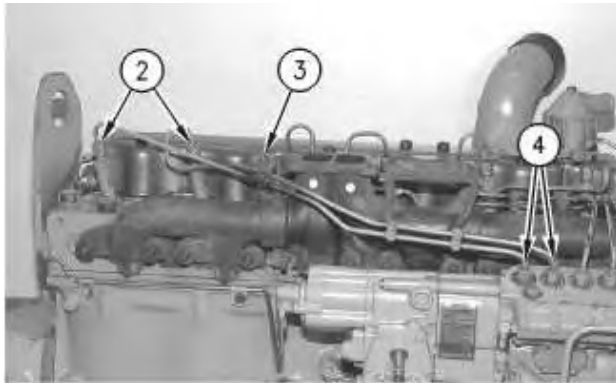


Illustration 2

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2. Remove bolt (3) from the bracket that holds two of the fuel injection lines in position. Loosen nuts (2) and (4) and remove the two fuel injection lines from the engine. Put protective caps on the fuel injectors and put protective caps on the fuel injection pump in order to prevent contamination.

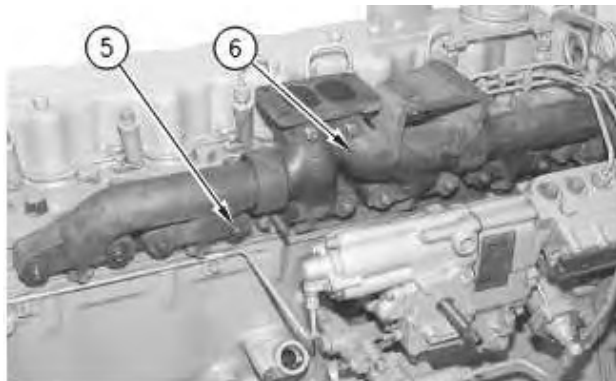
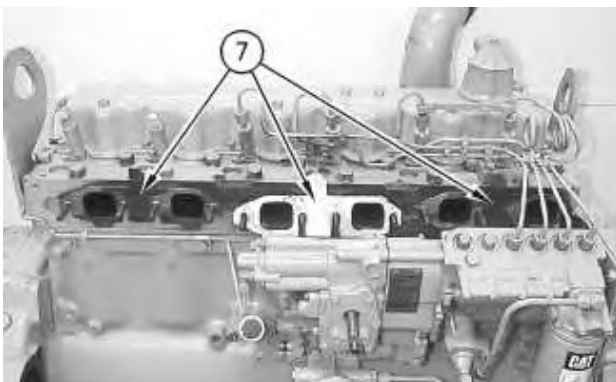


Illustration 3

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3. Remove the remaining ten exhaust manifold nuts (5) and the large washers. Remove exhaust manifold (6).



4. Remove three exhaust manifold gaskets (7) from the cylinder head and the twelve exhaust manifold studs, if necessary. Make sure that the position of the two longer studs are marked for proper installation.

Installation Procedure

Table 1

Required Tools			
Tool	Part Number	Description	Qty
A	5P-0144	Fuel Line Socket	1

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

1. If the twelve exhaust manifold studs were removed, apply **5P-3931** Anti-Seize Compound to both ends of the exhaust manifold studs and install the studs in the cylinder head. Make sure that the two longer studs are installed in the correct position. Tighten the studs to a torque of $27 \pm 4 \text{ N}\cdot\text{m}$ ($20 \pm 3 \text{ lb ft}$).

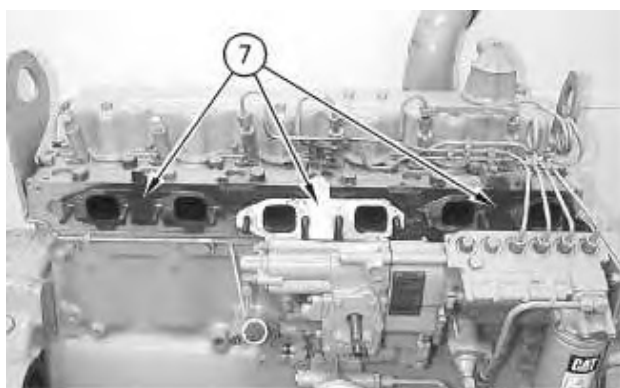


Illustration 5

2. Put three exhaust manifold gaskets (7) in position on the cylinder head.
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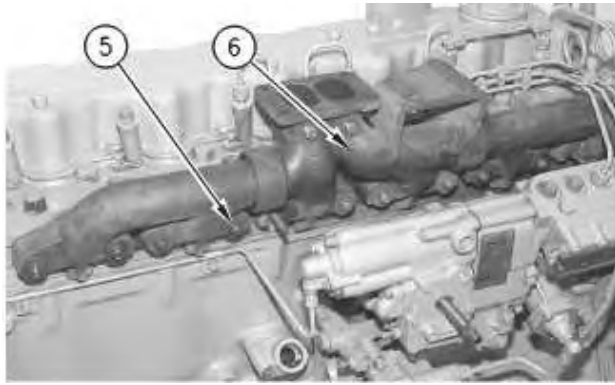


Illustration 6

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3. Install exhaust manifold (6). Install ten washers and nuts (5). The two longer studs are for the installation of the heat shield. Tighten exhaust manifold nuts (5) to a torque of $47 \pm 4 \text{ N}\cdot\text{m}$ ($35 \pm 3 \text{ lb ft}$).

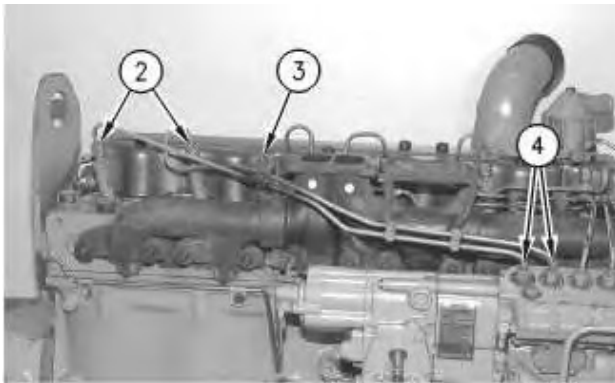
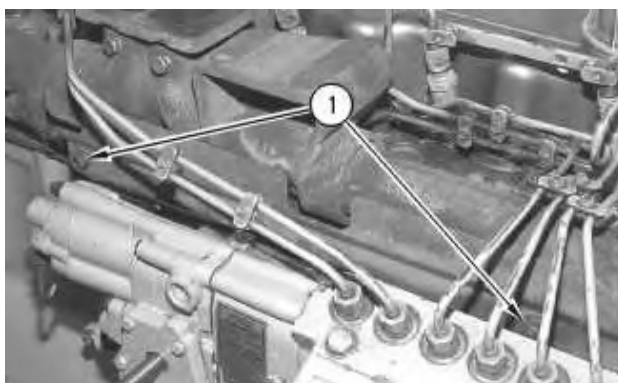


Illustration 7

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4. Remove the protective caps from the fuel injectors and the fuel injection pump. Put the fuel injection lines in position and tighten nuts (2) and (4) finger tight. Install bolt (3) in the bracket that holds the fuel injection lines in position. Tighten nuts (3) and (4) with Tool (A) to a torque of $40 \pm 7 \text{ N}\cdot\text{m}$ ($30 \pm 5 \text{ lb ft}$).



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