



Service Repair Manual

Models

213B EXCAVATOR

Product: EXCAVATOR

Model: 213B EXCAVATOR 1EJ

Configuration: 213B EXCAVATOR TRACK TYPE 1EJ00001-UP (MACHINE) POWERED BY 3116 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

i01414226

Inlet Manifold - Install

SMCS - 1058-012

Installation Procedure

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, "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.



Illustration 1

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1. Install a new gasket (6) on the cylinder head.

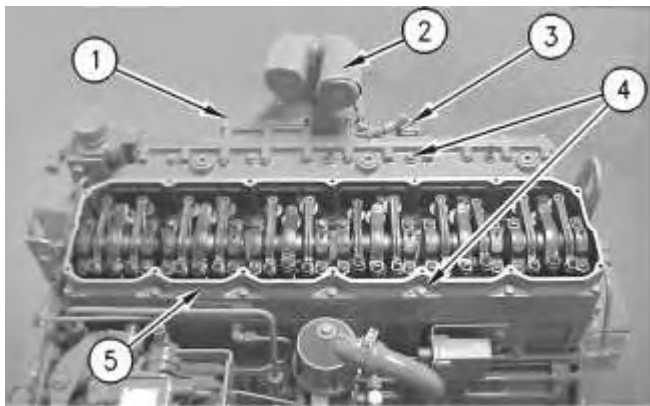


Illustration 2

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2. Position the air inlet manifold (5) on the engine.
3. Install bolts (4). Tighten the bolts to a torque of 28 ± 7 N·m (21 ± 5 lb ft).
4. Install air inlet elbows (2) on air inlet manifold (5).
5. Install bolts (1) and connect air inlet heater solenoid (3).

End By:

- a. Install the valve mechanism cover. Refer to Disassembly and Assembly, "Valve Mechanism Cover - Remove and Install".

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Inlet and Exhaust Valves - Remove and Install

SMCS - 1105-010

Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	5S-1330	Valve Spring Compressor	1

Start By:

- Remove the cylinder head assembly. Refer to Disassembly and Assembly, "Cylinder Head - Remove".

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

Note: For information on the reusability of the inlet valves, the exhaust valves and the springs, refer to Guideline For Reusable Parts And Salvage Operations, SEBF8002, "Valves, Valve Springs, Valve Rotators, and Locks", Guideline For Reusable Parts And Salvage Operations, SEBF8034, "Valve and Valve Spring Specifications", and Guideline For Reusable Parts And Salvage Operations, SEBF8162, "Specifications to Measure and Salvage Cylinder Head Assemblies and Related Components".

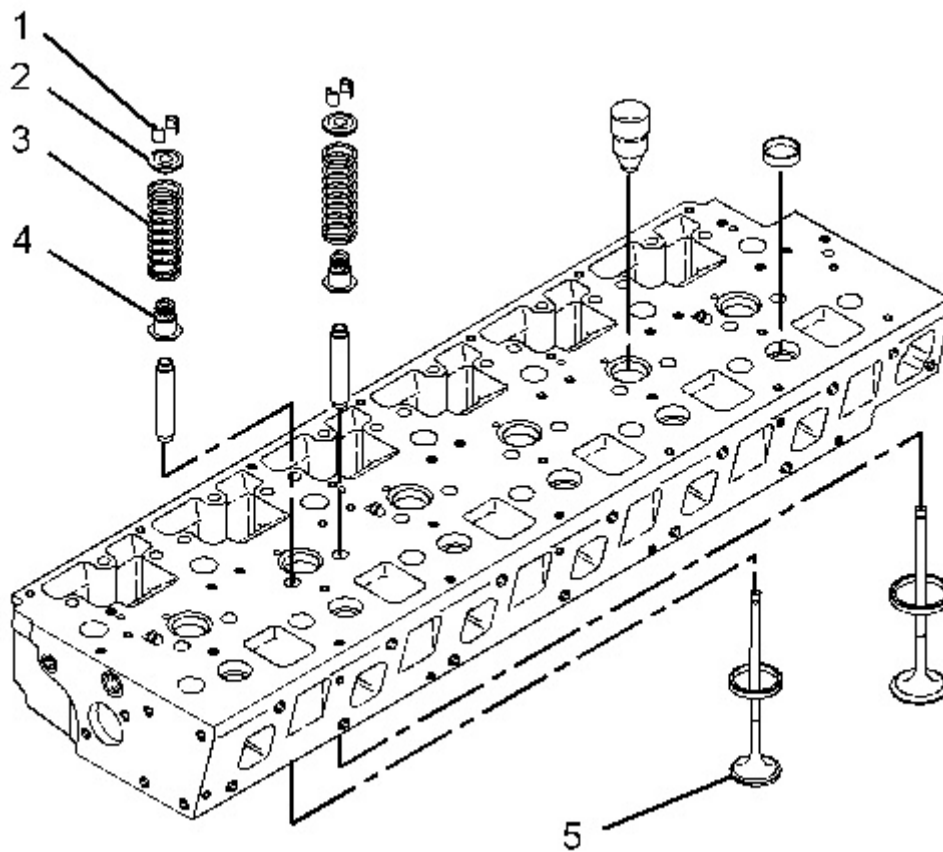


Illustration 1

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Note: The following components of the exhaust valves are different from the components of the inlet valves: spring retainer (2), valve spring (3) and valve (5).

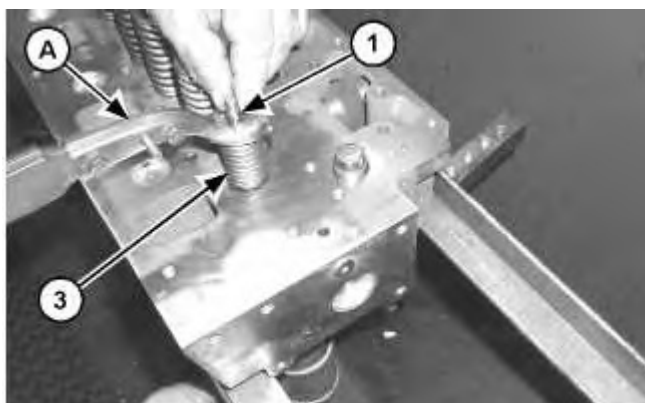


Illustration 2

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1. Use Tooling (A) to compress valve spring (3). Remove retainer lock (1).
2. Remove Tooling (A).
3. Remove spring retainer (2). Remove valve spring (3).

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