

Product: MOTOR GRADER

Model: 140H ES MOTOR GRADER 8KM

Configuration: 140H Motor Grader 8KM00001-UP (MACHINE) POWERED BY 3306 Engine

Disassembly and Assembly 3304B and 3306B Engines for Caterpillar Built Machines

Media Number -SEN5598-09

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i00962627

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
B	8S-2263	Valve Spring Tester	1

Start By:

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

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

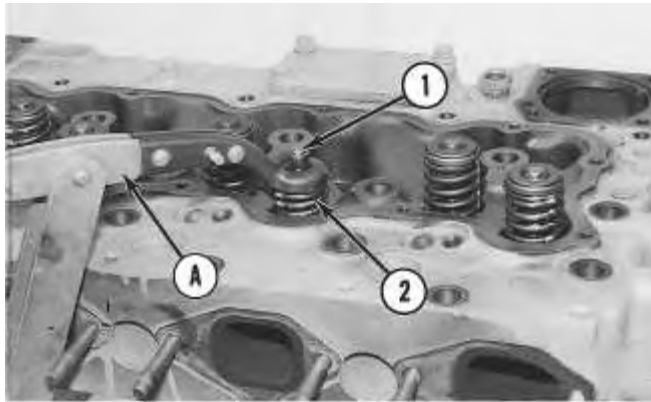


Illustration 1

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1. Use Tool (A) to compress valve spring (2) and remove valve keepers (1) .
2. Remove Tool (A), the rotocoil, the valve spring and the valve stem oil shield. Remove the valve from the cylinder head. Put identification marks on the valves for installation purposes.

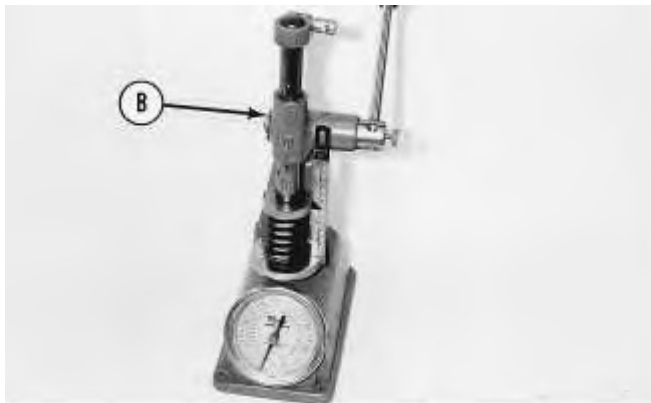


Illustration 2

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3. Check the valve spring force with Tool (B). Refer to Specifications, "Cylinder Head Valves" for information on the valve springs.
4. Perform Steps 1 through 3 for the remaining inlet and exhaust valves.

Installation Procedure

Table 2

Required Tools			
Tool	Part Number	Part Description	Qty
A	5S-1330	Valve Spring Compressor	1
B	5S-1322	Valve Keeper Inserter	1

NOTICE

Keep all parts clean from contaminants.

Contaminants may cause rapid wear and shortened component life.

1. Lubricate the inlet and exhaust valves with clean engine oil. Install the inlet and exhaust valves in the original location in the cylinder head.

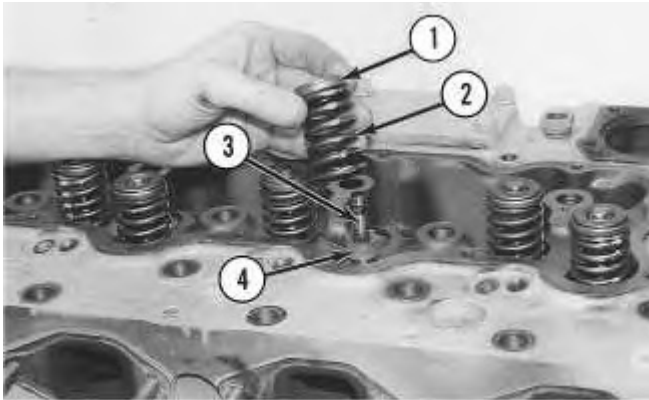


Illustration 3

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2. Install valves (3), oil shield (4), valve spring (2) and rotocoil (1) in the cylinder head.

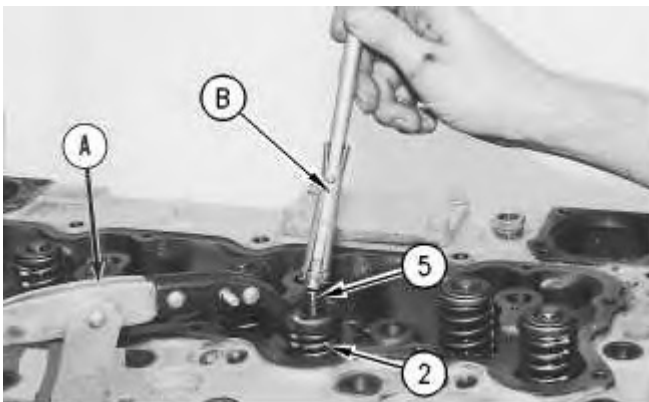


Illustration 4

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3. Use Tool (A) to compress valve spring (2). Install valve keeper (5) on the valve stem with Tool (B) .



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