

Product: TRACK LOADER

Model: 973 TRACK LOADER 26Z

Configuration: 973 LGP TRACK LOADER 26Z00001-UP (MACHINE) POWERED BY 3306 ENGINE

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

Media Number -SEN5598-09

Publication Date -01/01/2013

Date Updated -25/01/2013

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".

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### NOTICE

**Keep all parts clean from contaminants.**

**Contaminants may cause rapid wear and shortened component life.**

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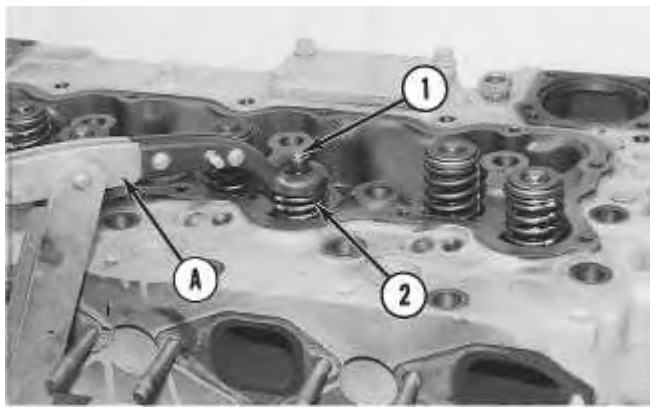


Illustration 1

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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.

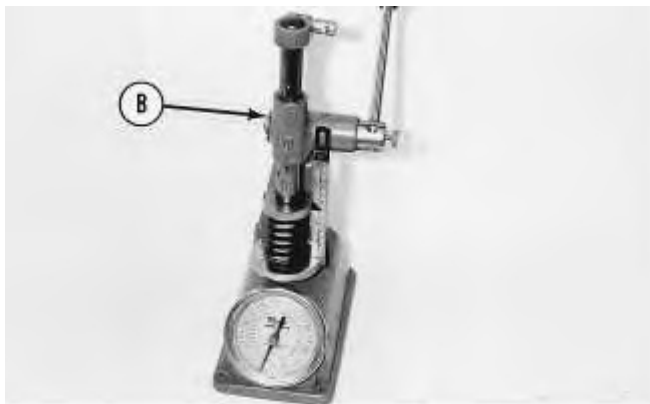


Illustration 2

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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

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## NOTICE

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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.

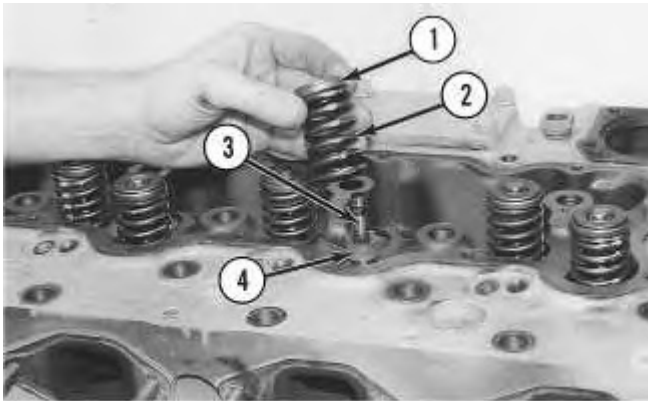


Illustration 3

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

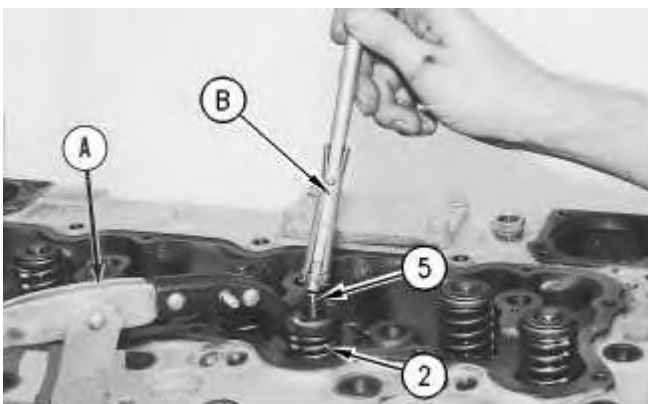


Illustration 4

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



## WARNING

**The valve keepers can be thrown from the valve when the valve spring compressor is released. Ensure that the valve keepers are properly installed on the valve stem. To help prevent personal injury, keep away from the front of the valve keepers and valve springs during the installation of the valves.**

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4. Carefully remove Tool (A). Strike the top of the valve with a soft faced hammer in order to ensure that the valve keepers are properly installed.
5. Repeat Steps 3 through 4 for the remaining inlet and exhaust valves.

**End By:** Install the cylinder head. Refer to Disassembly and Assembly, "Cylinder Head - Remove and Install".

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

Media Number -SEN5598-09

Publication Date -01/01/2013

Date Updated -25/01/2013

i00962891

# Inlet and Exhaust Valve Guides - Remove and Install

SMCS - 1104-010

## Removal Procedure

Table 1

Required Tools			
Tool	Part Number	Part Description	Qty
A	9U-7349	Valve Guide Driver	1

### Start By:

- Remove the inlet and exhaust valves. Refer to Disassembly and Assembly, "Inlet and Exhaust Valves - Remove and Install".

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### NOTICE

**Keep all parts clean from contaminants.**

**Contaminants may cause rapid wear and shortened component life.**

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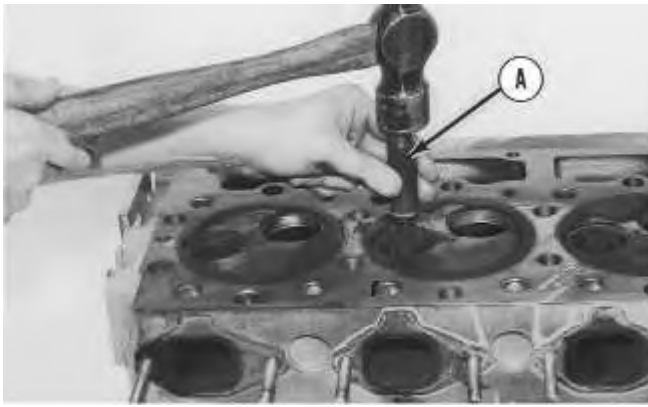


Illustration 1

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1. Use Tool (A) to remove the inlet and exhaust valve guides from the cylinder head.
2. Repeat Step 1 for the remaining inlet and exhaust valve guides.

## Installation Procedure

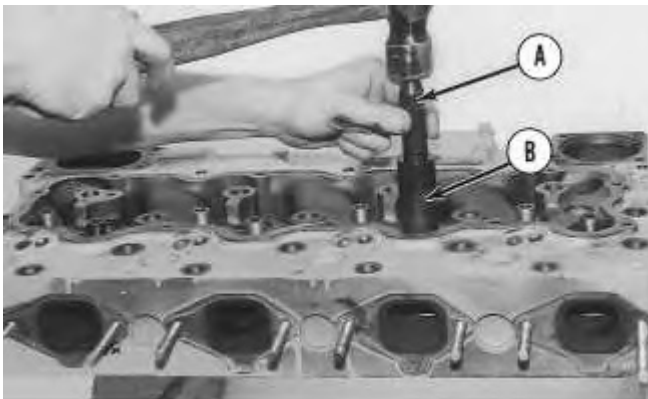
Table 2

Required Tools			
Tool	Part Number	Part Description	Qty
A	9U-7349	Valve Guide Driver	1
B	9U-6954	Valve Guide Collar	1

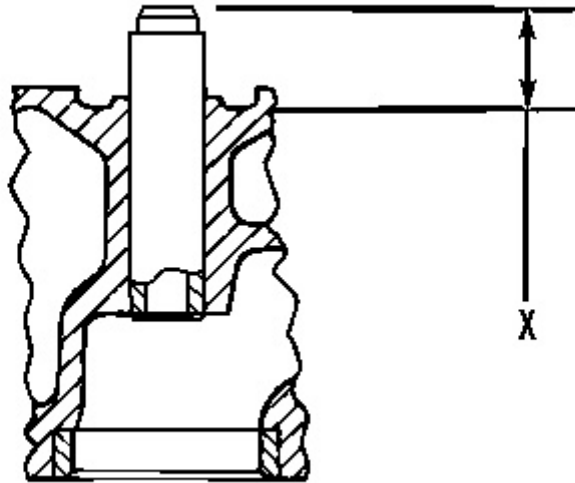
### NOTICE

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**Contaminants may cause rapid wear and shortened component life.**



1. Put clean engine oil on the outside diameter of the valve guide. Install the valve guide with Tool (A) and Tool (B), as shown.



2. Dimension (X) from the top of the valve guide to the cylinder head must be  $22.23 \pm 0.25$  mm ( $0.875 \pm 0.010$  inch). For more information on the inlet and exhaust valve guides, refer to Specifications, "Cylinder Head Valves".

**Note:** In order to help prevent damage to the valve guides, Tool (B) must be used during installation.

3. Repeat Steps 1 and 2 for the remaining inlet and exhaust valve guides.

**End By:** Install the inlet and exhaust valves. Refer to Disassembly and Assembly, "Inlet and Exhaust Valves - Remove and Install".

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